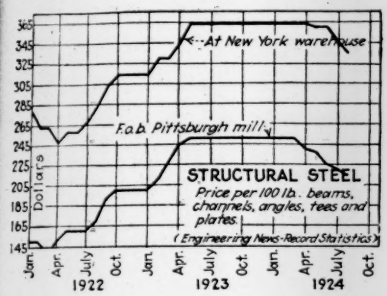
CONSTRUCTION NEWS

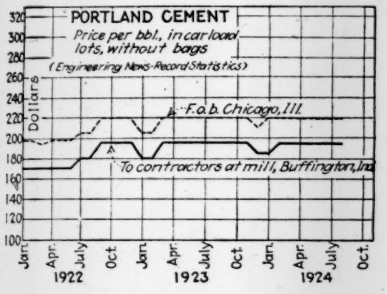
Engineering News-Record, August 7, 1924

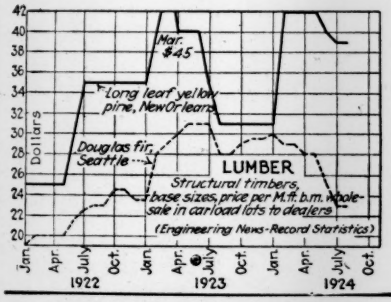
The Construction Barometer

Heavy Contract Letting Continued Throughout July— Increase in Number of Large Jobs Now Out for Bids

NO decided drop in the basic building materials. The accompanying charts show the curves to have stopped any farther drop, with the exception of brick which has a very abrupt decline. While buying is still maintaining a small tonnage basis, the general trend of prices seems to be upward which denotes increased inquiries at least. The increase in the number of large jobs out for bids is a favorable factor in the construction outlook.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
July 17	$15,869,000	$28,753,000	$44,622,000
July 24	31,925,000	16,069,000	47,994,000
July 31	32,273,000	21,712,000	53,985,000
3 weeks	$80,067,000	$66,534,000	$146,601,000

LARGE BUILDING CONTRACTS— NUMBER AND VALUE

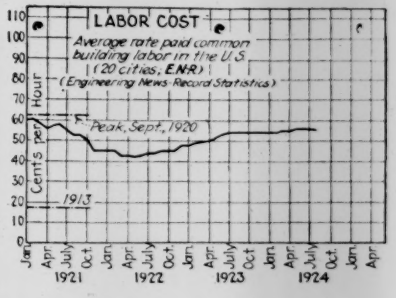
Week Ended	Public No.	Public Work	Private No.	Private Work
July 17	17	$3,458,000	44	$21,720,000
July 24	11	7,569,000	28	8,170,000
July 31	16	4,035,000	44	11,314,000
3 weeks	44	$15,062,000	116	$41,204,000

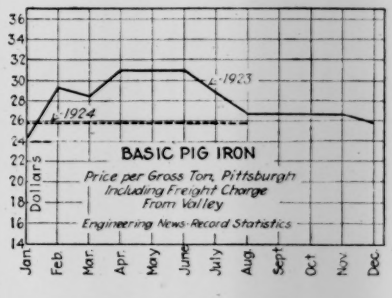
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

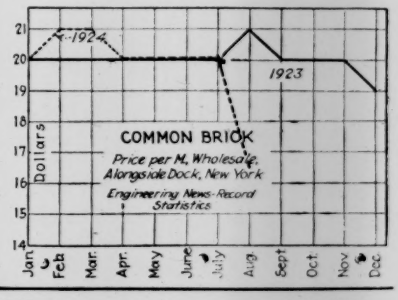
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
July 17	29	40	79	38	195
July 24	26	30	75	46	195
July 31	28	41	85	52	226

BUILDING COSTS SHOW NO DECIDED CHANGE

	Quoted on Aug. 7 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @ 2.15	$1.95 @ 2.15	July 24
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	57.00	54.00	July 10
Fir, San Fran., M.ft.	32.00	34.00	July 17
Common labor, hr.	.56	.55	Apr. 24







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 8	New York, N. Y.	July 31
Aug. 8	Millville, N. J.	Aug. 7
Aug. 10	Beverly Hills, Calif.	Aug. 7
Aug. 11	Salem, N. J.	July 31
Aug. 11	Ames, Ia.	July 31
Aug. 11	Marshalltown, Ia.	July 31
Aug. 11	Dallas, Tex.	July 17
Aug. 11	Liverpool, N. Y.	July 31
Aug. 12	North, S. C.	Aug. 7
Aug. 12	Boston, Mass.	Aug. 7
Aug. 15	New Castle, Ind.	July 31
Aug. 15	Aztec, N. Mex. Adv. July 17 to Aug. 7.	July 17
Aug. 16	Kewonee, Ill. Adv. Aug. 7.	Aug. 7
Aug. 19	Keansburg, N. J. Adv. Aug. 7.	Aug. 7
Aug. 20	San Francisco, Calif.	July 31
Aug. 21	Atlanta, Ga.	July 24
Aug. 22	Staunton, Va. Adv. July 31 and Aug. 7.	July 31
Aug. 22	Irvington, N. Y. Adv. Aug. 7.	Aug. 7
Aug. 26	Beaumont, Tex. Adv. Aug. 7.	Aug. 7
Aug. 26	Southern Pines, N. C. Adv. July 24 and Aug. 7.	July 31
Aug. 28	Atlanta, Ga. Adv. Aug. 7.	Aug. 7

SEWERS

Aug. 11	Warren, Mich.	Aug. 7
Aug. 11	Romeo, Mich.	Aug. 7
Aug. 11	Mason, Mich.	Aug. 7
Aug. 13	Brooklyn, N. Y.	Aug. 7
Aug. 13	Baltimore, Md. Adv. Aug. 7.	Aug. 7
Aug. 14	Denver, Colo.	Aug. 7
Aug. 15	Waco, Tex.	July 3
Aug. 18	South San Francisco, Calif.	Aug. 7
Aug. 19	Medford, Wis.	Aug. 7
Aug. 20	Elgin, Ill. Adv. July 24 to Aug. 7.	July 24
Aug. 22	Elizabethtown, Pa. Adv. July 31 and Aug. 7.	July 31
Aug. 26	Beaumont, Tex.	Aug. 7
Sept. 4	New Jersey Adv. July 24 and Aug. 7.	July 24

WASTE DISPOSAL

Sept. 8	Paterson, N. J.	July 31

BRIDGES

Aug. 11	Camden, N. J.	July 24
Aug. 11	Riverside, Calif.	Aug. 7
Aug. 11	Michigan	Aug. 7
Aug. 12	Illinois	Aug. 7
Aug. 12	Michigan	Aug. 7
Aug. 12	South Dakota	Aug. 7
Aug. 13	Kingston, S. C.	Aug. 7
Aug. 14	Kansas City, Kan.	Aug. 7
Aug. 14	Ft. Worth, Tex.	Aug. 7

Bids Close		See Eng. News-Record
Aug. 14	Kansas City, Kan.	July 24
Aug. 18	California	Aug. 7
Aug. 18	New Jersey Adv. July 31 and Aug. 7.	Aug. 7
Aug. 19	Wilmington, Del. Adv. July 24 and Aug. 7.	July 31
Aug. 19	Macon, Ga. Adv. Aug. 7.	Aug. 7
Aug. 19	Doylestown, Pa. Adv. Aug. 7.	Aug. 7
Aug. 20	Kentucky	July 31
Aug. 20	Rhode Island Adv. Aug. 7.	Aug. 7
Aug. 26	East St. Louis, Ill.	July 24

EXCAVATION, DRAINAGE IRRIGATION

Aug. 11	Ripley, Miss.	July 24
Aug. 11	Astoria, Ore.	Aug. 7
Aug. 20	Bridge Junction, Ark.	Aug. 7
Oct. 14	Massachusetts	Aug. 7

STREETS AND ROADS

Aug. 8	Crawfordsville, Ind.	Aug. 7
Aug. 8	Shelbyville, Ind.	Aug. 7
Aug. 9	Richmond, Ind.	Aug. 7
Aug. 10	Canton, O.	July 31
Aug. 11	Plainfield, N. J.	July 24
Aug. 11	New Jersey	July 24
Aug. 11	Corinth, Miss.	July 24
Aug. 11	St. George, N. Y.	Aug. 7
Aug. 11	Hawthorne, Calif.	Aug. 7
Aug. 11	Los Angeles, Calif.	Aug. 7
Aug. 11	New York, N. Y.	Aug. 7
Aug. 11	Brownstown, Ind.	Aug. 7
Aug. 11	Akron, O.	Aug. 7
Aug. 11	Wichita, Kan.	Aug. 7
Aug. 11	South Pasadena, Calif.	Aug. 7
Aug. 11	New Jersey	Aug. 7
Aug. 11	Altoona, Tex.	Aug. 7
Aug. 12	Carrizo Springs, Tex.	July 24
Aug. 12	Newark, N. J.	July 31
Aug. 12	Oklahoma	Aug. 7
Aug. 12	Napa, Calif.	Aug. 7
Aug. 12	Louisiana	Aug. 7
Aug. 12	Massachusetts	Aug. 7
Aug. 12	South Dakota	Aug. 7
Aug. 12	Akron, O.	Aug. 7
Aug. 12	Colorado	Aug. 7
Aug. 13	Alabama	July 31
Aug. 13	Philippi, W. Va.	July 31
Aug. 13	Alabama	July 24
Aug. 13	Brooklyn, N. Y.	Aug. 7
Aug. 14	Smith Center, Kan.	Aug. 7
Aug. 14	San Marcos, Tex.	Aug. 7
Aug. 14	Ft. Worth, Tex.	Aug. 7
Aug. 15	Rock Hills, S. C.	Aug. 7
Aug. 15	Baton Rouge, La.	Aug. 7
Aug. 15	Dallas, Tex.	Aug. 7
Aug. 15	Amarillo, Tex.	Aug. 7
Aug. 16	New Albany, Ind.	July 31
Aug. 18	California	Aug. 7
Aug. 18	Los Angeles, Calif.	Aug. 7
Aug. 18	Red Bank, N. J. Adv. Aug. 7.	Aug. 7
Aug. 18	Sioux Falls, S. D.	Aug. 7
Aug. 18	West Dallas, Wis.	Aug. 7
Aug. 18	New Jersey Adv. July 31 and Aug. 7.	Aug. 7
Aug. 18	Elbow Lake, Minn.	Aug. 7
Aug. 18	Kewonee, Ill. Adv. Aug. 7.	Aug. 7
Aug. 19	Sea Cliff, N. Y. Adv. Aug. 7.	Aug. 7
Aug. 19	Maryland Adv. Aug. 7 and 14.	Aug. 7
Aug. 19	Belvidere, N. J. Adv. July 31 and Aug. 7.	July 31
Aug. 19	Pennsylvania Adv. July 31 and Aug. 7.	July 31
Aug. 19	Omaha, Nebr.	Aug. 7
Aug. 19	Alice, Tex.	Aug. 7
Aug. 20	Kentucky	July 31
Aug. 20	Alabama	July 31
Aug. 20	Baton Rouge, La.	Aug. 7
Aug. 20	Freehold, N. J. Adv. Aug. 7.	Aug. 7
Aug. 21	Newton, N. J. Adv. July 31 and Aug. 7.	Aug. 7
Aug. 22	Mechanicville, N. Y. Adv. July 31 and Aug. 7.	July 31
Aug. 22	Sulphur Springs, Tex.	Aug. 7
Aug. 25	Greensburg, Pa.	Aug. 7
Aug. 26	St. Louis, Mo.	Aug. 7
Aug. 26	Pennsylvania Adv. Aug. 7.	Aug. 7
Aug. 29	Pelham, N. Y.	July 24
Sept. 2	Bedford, Ia.	July 31

BUILDINGS—INDUSTRIAL

Aug. 11	Greenfield, Ia.	Aug. 7
Aug. 13	Kings Park, N. Y. Adv. July 31 and Aug. 7.	July 31
Aug 15	Anderson, Ind.	July 31

BUILDINGS—COMMERCIAL

Aug. 11	Greigsville, N. Y.	July 10
Aug. 12	Great Bend, Kan.	July 31
Aug. 12	Brooklyn, N. Y.	July 31
Aug. 12	Astoria, N. Y.	July 31
Aug. 12	New York, N. Y.	July 31
Aug. 12	Canarsie (Brooklyn P. O.), N. Y.	July 31
Aug. 12	Phila., Pa.	Aug. 7
Aug. 12	Great Bend, Kan.	Aug. 7
Aug. 12	Dorchester (Boston P. O.), Mass.	Aug. 7
Aug. 13	Denver, Colo.	July 31
Aug. 14	Lancaster, Pa.	Aug. 7
Aug. 14	New York, N. Y.	July 24
Aug. 15	Croton-on-Hudson, N. Y.	July 24
Aug. 15	Los Angeles, Cal.	July 24
Aug. 15	Buhl, Minn.	Aug. 7
Aug. 18	Kingsville, Tex.	Aug. 7
Aug. 18	Port Arthur, Tex.	Aug. 7
Aug. 19	Deadwood, S. D.	Aug. 7
Aug. 20	Birmingham, Ala.	Aug. 7
Aug. 21	Seneca Falls, N. Y.	Aug. 7
Aug. 22	Smithtown Branch, N. Y.	Aug. 7
Aug. 26	Elkins, W. Va.	July 31
Aug. 26	Wilmington, Del. Adv. July 31 and Aug. 7.	July 31
Aug. 30	New Castle, Pa.	Aug. 24
Sept. 1	New Castle, Pa.	July 24
Sept. 1	Bridgeport, Conn.	Aug. 7
Sept. 2	Columbus, O.	July 24
Sept. 4	Morris Plains, N. J. Adv. Aug. 7.	Aug. 7
Oct. 11	Groton, Conn.	Aug. 7

FEDERAL GOVERNMENT WORK

Aug. 8	Maintenance and Improvement —Phila., Pa.	July 31
Aug. 8	Dike—Phila., Pa.	July 24
Aug. 9	Engines—Pittsburgh, Pa. Adv. July 17 to Aug. 7.	July 24
Aug. 11	Rip Rap, etc.—Huntington, W. Va.	July 24
Aug. 11	Sheet Piling—Louisville, Ky. Adv. July 31 and Aug. 7.	July 31
Aug. 12	School—Franklin, Tenn.	July 17
Aug. 12	Roads—Whipple Barracks, Ariz.	July 17
Aug. 12	Water Tanks, etc.—Atlanta, Ga.	July 24
Aug. 12	Earthwork—St. Louis, Mo. Adv. July 31 and Aug. 7.	July 31
Aug. 13	Steel Water Tanks—Pearl Harbor, H. T.	July 3
Aug. 15	Dredging—Providence, R. I. Adv. July 17 to Aug. 7.	July 17
Aug. 15	Towboat—Montgomery, Ala. Adv. July 17 to Aug. 7.	July 24
Aug. 15	Underground Passage—New York, N. Y.	July 31
Aug. 17	Dipper Dredges—Louisville, Ky.	July 10
Aug. 18	Water Tanks—Cincinnati, O. Adv. Aug. 7.	Aug. 7
Aug. 19	Quarters—Wash., D. C. Adv. July 24 to Aug. 7.	July 24
Aug. 20	Belt Conveyor—Memphis, Tenn. Adv. Aug. 7.	Aug. 7
Aug. 21	Steel Pontoon—Mobile, Ala.	Aug. 7
Aug. 21	Sprinkler System — Chicago, Ill. Adv. Aug. 7.	Aug. 7
Aug. 21	Steel Pontoons—Mobile, Ala. Adv. Aug. 7.	Aug. 7
Aug. 26	Post Office—Walden, N. Y.	Aug. 7
Aug. 28	Heatgate Operating Rigs — Florence, Ala. Adv. July 31 and Aug. 7.	July 31
Aug. 29	Construction — Mt. Pleasant, Tex.	Aug. 7
Aug. 29	Post Office—Mt. Pleasant, Tex.	July 31
Aug. 30	Water Stills—Memphis, Tenn. Adv. Aug. 7.	Aug. 7
Sept. 2	Chutes, etc.—Honolulu, H. I.	July 3
Sept. 2	Waterworks, etc.—Oteen, N. C. Adv. Aug. 7.	Aug. 7
Sept. 3	Dredging—Detroit, Mich. Adv. Aug. 7.	Aug. 7
Sept. 3	Lock Gate—Pittsburgh, Pa.	Aug. 7
Sept. 20	Lock Gates — Florence, Ala. Adv. July 24 to Aug. 7.	July 24
Sept. 20	Lock Gates, etc. — Florence, Ala.	Aug. 7

UNCLASSIFIED

Aug. 8	Heating—Ithaca, N. Y.	July 31
Aug. 11	Electric Light System — New York Adv. July 31 and Aug. 7.	July 31
Aug. 18	Wharf—Mamaroneck, N. Y. Adv. July 31 and Aug. 7.	Aug. 7
Aug. 19	Turbines—Toronto, Ont.	July 24
Aug. 19	Piers—Boston, Mass.	Aug. 7
Aug. 22	Barge Canal Terminals — Brooklyn, N. Y. Adv. July 31 and Aug. 7.	July 31
Sept. 15	Bushing Insulators—Melbourne, Victoria, Australia	July 10

Bids Close		See Eng. News-Record
MATERIAL AND EQUIPMENT		
Aug. 12	Portland Cement—San Francisco, Calif.	July 31
Aug. 19	Pipe—Toronto, Ont.	Aug. 7
Aug. 19	Road Machinery—Austin, Tex.	Aug. 7
Aug. 29	Dredger—Brisbane, Queensland, Australia	Apr. 1

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

W. Va., Westover — Plans election to vote on $100,000 bonds for waterworks. W. E. Hunt, mayor.

Ga., Hapeville—Election Aug. 12, $20,000 for waterworks.

Fla., Ocalo—Plan election Aug. 5, to vote $40,000 bonds for extending mains. H. C. Sistrunk, city clk.

Miss., Boonsville—Soon takes bids tank on tower, 4- to 6-in. mains, valves, fittings, hydrants, pumping equipment, etc. $30,000. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, Mo., engrs.

La., Cheneyville—Plans water and electric light plant. $40,000. F. P. Joseph, Glenmore, consult. engr.

La., New Orleans—Bd. Levee Comrs., New Orleans Levee Dist, plans spillway in parish of Plaquemine for protection of New Orleans from flood waters.

Ky., Ashland—See "Streets and Roads."

Mich., Sibley—Plans 6 and 8 in. iron water mains for water system. $25,000. R. A. Murdoch, 603 Free Press Bldg., engr.

Ill., Centralia — City preparing plans filtered water reservoir, coagulating basins, filters, headhouse, two 3 m.g. and one 5 m.g. low lift steam turbines. $125,000. Pearse, Greely & Hanson, 6 North Michigan Ave., Chicago, engrs.

Ill., Chicago—City takes bids about Aug. 6, removal of Lake View Crib 2 mi. from shore of Lake Michigan. $75,000. V. J. Ericson, city engr.

Ill., Chicago—City takes bids about Aug. 15, 2 units steam turbine centrifugal pumps 70 m.g. capacity each, 150 ft. steam pressure, etc., for Central Park Ave. pumping station, 1015 South Central Park Ave. and Springfield Pumping Station, 1747 North Springfield Ave. $160,000. J. Ericson, 402 City Hall, engr.

Minn, Hawley—Having preliminary plans prepared waterworks system, $20,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engr.

Minn., Lakeville—Making plans waterworks system, $22,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engr.

Minn., St. Paul — Ramsey Co. received no bids constructing two pump houses with well pump pits at White Bear Lake; furnishing and installing two 12 in. type, 750 g.p.m. turbine-impeller pumps to R. B. Whitacre & Co., 205 South Robert St. $3,738.

Kan., Cuba—Election in fall to vote on $30,000 bonds for waterworks and distribution system.

Neb., Greenwood—Plans election soon to vote on $20,000 bonds for waterworks and distribution system. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, engr.

Mo., Higginsville—Election in September to vote on $90,000 bonds distribution system and sanitary sewer system, etc. E. T. Archter & Co., New England Bldg., Kansas City, engrs.

Tex., Lufkin — Voted $75,000 bonds waterworks. Noted July 3.

Okla., Avant — City defeated $25,000 bonds for waterworks and project will be dropped. Holway Eng. Co., Wright Bldg., Tulsa, engrs. Noted July 24.

Okla., Goodwill — Voted $25,000 bonds for waterworks and distribution system, etc.

Okla., Idabel—Plans waterworks extensions, incl. storage, mains, pumping equipment and basins. To exceed $25,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tulsa — Plans election to vote $275,000 bonds for waterworks improvements in Dist. 1. C. Schultz, city engr.

Wash., Port Angeles — Voted $625,000 bonds, purchasing present system, additions

Waterworks (Continued)

and improvements of plant owned by Northern Pacific Pub. Serv. Corp., Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs. Noted June 12.

Calif., Anaheim—City plans to purchase 875 ft. 4 in. and 6,300 ft. 6 in. class "C" c.i. water pipe. E. B. Merritt, city clk.

Calif., Glendale — See "Streets and Roads."

Calif., Lankershim — Lankershim Twp. plans election to vote $750,000 or more bonds to construct water system and improve sections of present system.

BIDS DESIRED

Mass., Boston—Aug. 12, by Dept. Pub. Wks., City Hall, electric valve operating equipment on 36 in. valve at Copley Sq., Beacon St., and Commonwealth Ave., Huntington Ave. at South Huntington Ave., for Water Dept. J. A. Rourke, comr.

Mass., Boston — Aug. 12, by Supply Dept., City Hall, 100,000 lb. iron castings (frames and covers), for Pub. Wks. Dept., Water Service. F. A. Peck, supt.

N. Y., Irvington—Aug. 22, at office R. Dashwood, village clk., auxiliary electric pumping plant in waterworks station, Harriman Rd. Tribus & Massa, 115 Park Row, New York City, consult. engrs.; adv. E. N.-R. Aug. 7.

N. J., Keansburg — Aug. 19 by Boro. Council, improving waterworks, laying c.i. mains, pumping station, filters, deep wells, etc. Alexander Potter, consult. engr.; adv. E. N.-R. Aug. 7.

N. J., Millville—Aug. 8, by Bd. Comrs. sinking three 8 in. wells. W. F. Ware, dir. Parks & Pub. Property.

S. C., North—Aug. 12, at office Secretary of Comrs. Pub. Wks., new waterworks system. Ryan Eng. Co., Arcade Bldg., Columbia, engr.

Ga., Atlanta—Aug. 28, by Purchasing Agent, mixing basin and chemical house. P. H. Norcross, 1404 Candler Bldg., engr.; adv. E. N.-R. Aug. 28.

Ill., Kewanee — Aug. 16, by Bd. Local Impvts., waterworks improvements, incl. 6 in. main extensions, etc. J. A. Andrews, pres.; adv. E. N.-R. Aug. 7.

Ia., Greenfield—See "Industrial Works."

Minn., Anoka — August 4, by H. W. Plummer, city clk., 6,879 lin.ft. of 4-in. and 499 lin.ft. of 6-in. c.i. mains, specials, 260 lin.ft. of 8-in. sewer. $15,000

Minn, Chisholm—August 5, by C. S. Sullivan, supt. waterworks, furnishing 42 tons 6-in. and 36 tons 8-in. hub and spigot c.i. pipe class B.

Minn., Minneapolis—August 4, by F. S. Gram, city purch. agt., furnishing 90 tons special castings and 100 fire hydrants. N. W. Elsberg, city engr.

Minn., St. Paul — August 5, by H. W. Austin, city purch. agt., 1,980 12-ft. lengths of 6-in. sand-cast class B c.i. pipe. G. M. Shepard, city engr.

Tex, Beaumont—Aug. 26, by Beaumont Waterworks Comn., L. J. Black, chn., 4 m.g. filtration plant. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., consult. engrs.

Tex., Beaumont—Aug. 26, at office Waterworks Comn., City Hall, 4 m.g. filtration plant, etc. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.; adv. E. N.-R. Aug. 7.

Calif., Beverly Hills—August 10, by Salisbury, Bradshaw & Taylor, engrs., Mortgage Guarantee Bldg., Los Angeles, furnishing and laying 4,000 ft. 4 in. and 2,000 ft. 6 in. water main, for Beverly Corp. Tract.

Calif., Inglewood — See "Streets and Roads."

Calif., South Pasadena—See "Streets and Roads."

Que., Three Rivers—Taking bids rapid sand filter plant, 6 beds, new mains, etc. $500,000.

CONTRACTS AWARDED

Mass., Boston — Dept. Pub. Wks., City Hall, cleaning about 63,050 ft., water pipes in Brighton and Roxbury, to Natl. Water Cleaning Co., 50 Church St., New York City, $19,365. Noted July 24.

Conn., Norwalk — Raising height of Brown Reservoir dam, 6 ft., to F. B. Hastings, 2 Pierce Pl., Bridgeport. Engrs. est. $35,000.

Md., Baltimore—Mayor and City Council c.i. pipe and fittings to Water Dept., to R. D. Wood & Co., Phila., Pa., $281,976.

Ill., Des Plaines — For 350 tons 10 in. pipe, to Lynchburg Foundry Co., 122 South Michigan Ave., Chicago.

Ill., Schiller Park—Water mains, pump house and sewerage system, to Pastoret Constr. Co., Sellwood Bldg., Duluth, Minn.; deep well pumping equipment, to Luitweiler Pump Co., 332 South Michigan Ave.; tank on tower, to Chicago Bridge Iron Co., 105th and Throop Sts. Total est. $100,000.

Minn., Grand Rapids—City, 1,200 lin.ft. 4 in. c.i. pipe, three 4x4x4x4 crosses, three 4x4x4 tees, three, 4 in. waterous hydrants, three 4 in. gate valves with boxes, 800 lbs. pig lead., to Crane Co., 8 East Michigan Ave., Duluth.

Minn., St. Cloud—Water main extensions, incl. 5,795 lin.ft. 6- and 10-in. Class C c.i. pipe, 11 fire hydrants, etc., to De Graff Wolff, 985 Scheffer St., St. Paul, $16,547.

Minn., St. Paul—See "Proposed Work."

Kan., Girard — Waterworks and sewer extensions, to Reed & Wheelock, Girard, $45,000. Noted July 17.

Missouri—City of St. Louis waterworks equipment, 20,000 gal. tank on tower, pump etc. for St. Louis Childrens Hospital, at Valley Park, also 8 complete tanks, pumps, heaters, etc., for Jefferson Barracks Military Reservation, Jefferson Barracks, to Schubert-Christy Constr. & Mchy. Co., Ry. Exch. Bldg., St. Louis.

Mo., Festus—Pumping equipment, 2 deep wells, motor driven pump and one Triplex pump, to Reeves & Skinner Mchy. Co., 2211 Olive St., St. Louis, $8,585.

Mo., Hannibal—Bd. Pub. Wks., 6 m.g. filtration plant, to Long Constr. Co., 600 Rialto Bldg., Kansas City, $209,000. Noted July 24.

Wash., Seattle—Bd. Pub. Wks., 5,825 ft. 16 in., 10,150 ft. 8 in., 2,750 ft. 6 in., class B and 8,800 ft. 8 in. class C, watermains, to G. Argenteria, 1819 Weller St., $98,570.

Calif., Compton — See "Streets and Roads."

Ont., Windsor — Essex Border Utilities Comn., Heintzman Bldg., 10,000 ft. 24, 36 and 42 in. steel pipe, to S. E. Dinsmore Co. Ltd., Windsor. Engrs. est. $223,000. Noted June 26.

New Zealand, Wellington — See "Buildings—Industrial."

Sewers

PROPOSED WOI

Mass., West Roxbury (Boston P. O.)—Plans sewer at Calf Pasture Pumping Station, covering Great Stony Brook Sewer, $200,000. E. F. Murphy, sewer Div., Pub. Wks. Dept., engr.

Mass., Woburn—Plans trunk line sewer through Aberjona Valley, with financial aid of leather manufacturers in the section. Engineer and architect not selected. Address Mayor Bean.

Pa., Williamsport—Council plans 3,000 ft. 36 in. concrete sewer in Good Mill Race Dist, Newberry, from Iona Hall to Lycoming Creek. $25,000. L. Mussina, Williamsport, engr.

Md., Baltimore—Mayor and City Council preparing plans storm water interceptor along Atony Run between Wyndehurst Ave. and Cold Springs Lane, $24,000; storm drains and sanitary sewers on White Ave. and Harford Rd., $48,500; storm drains on Hamilton Ave. between Springdale and California Aves., $30,000. B. L. Crozier, City Hall, highways engr.

W. Va., Westover — Plans election to vote on $25,000 for sewers. W. E. Hunt, mayor.

Ga., Hapeville—Election Aug 12, $25,000 bonds for sewers.

Fla., Ocala—Plans election Aug. 5, to vote $75,000 for extending sewers. H. C. Sistrunk, city clk.

Ky., Ashland—See "Streets and Roads."

Ky., Louisville—Sewerage Comrs. takes bids about Sept. 15, Central Relief sewer and outlet into Ohio River at 8th St. $750,000. J. B. F. Breed, ch. engr.

O., Canton — Plans sanitary sewers in Bedford Ave. $15,000 to $20,000; Cleveland Ave. $20,000; 15th St. S. W. $20,000; 13th St. S. W. $15,000; Wertz Ave. N. W. $15,000 to $20,000; 17th St. and Superior Ave. W. E. $15,000. W. E. Sarver, City Hall, engr.

Ind., Princeton—City plans reconstructing part of sewer system, $70,000. E. E. Watts, engr.

Mich., Detroit—Dept. Pub. Wks., plans sewer, 18 in. vitr. crock in concrete, 798 ft. in Green Ave., also 12- to 24-in. vitr. crock Laterals 4179, 4182, 4183, 4185, 4188, 4191. G. Jerome, City Hall, city engr.

Minn., Hawley—Having preliminary survey made, sanitary sewer system. $25,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engr.

Minn., Rochester—Election August 19. $350,000 bonds sewage disposal plant. Noted Dec. 20.

Mo., Bolivar—Election soon to vote $45,000 bonds sanitary sewers. W. E. Rice, mayor.

Mo., Higginsville—See "Waterworks."

Ark., Magnolia—Take bids about Sept. 1, sanitary sewers, inlets, etc., $60,000. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs. Noted Mar. 13.

Tex., Lufkin — Voted $50,000 bonds sewers. Noted June 26.

Tex., New Braunfels — Terrell Bartlett, engrs., Calcasieu Bldg., opens bids about Aug. 15, additional construction and improvement of present sewerage system. $60,000. Noted July 24.

Tex., San Augustine—Election Aug. 12, $35,000 bonds sanitary sewerage system. J. Thompson, mayor. Noted July 3.

Calif., Fullerton—La Habra and Buena Park Sanitary Dist., making preliminary plans for three alternative disposal system, with pumping plants, $38,000 to $91,000. L. M. McCollum, Wickersheim Bldg., engr.

Calif., Glendale — See "Streets and Roads."

Calif., Ripon — Ripon Sanitary Dist. plans to construct sewer system and sewage disposal plant consisting of 6, 8 and 12 in. pipe, flush tanks and Imhoff tanks. $30,000. J. S. Bates, Rowell Bldg., Fresno, engr. Noted June 19.

Ont., Forest Hills—Plans sanitary sewers, 9 in. vitr. tile pipe. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Kitchener — Making plans new sewage disposal plant. $100,000. A. Shupe, city engr.

Ont., London—Making plans extending sanitary sewers in Knollwood Park Dist. 12 in. pipe. $200,000. W. P. Near, city engr. Prices wanted on materials.

Ont., Toronto—York Twp., 40 Jarvis St., having plans prepared by James, Proctor & Redfern, 36 Toronto St., 15 mi. storm and sanitary sewers in Runneymede Dist. $300,000.

BIDS DESIRED

N. Y., Brooklyn—Aug. 13, by E. Riegelmann, boro. pres., Boro Hall, sewers in Kings Highway, Avenues O, N and P, Stillwell, Gravesend and Ryder Aves., East 2nd, West 11th and 68th Sts.

Md., Baltimore—Aug. 13, by Bd. Awards, c/o City Register, Dist. J-7 trunk sewer Sect. L, Contr. 214. B. L. Crozier, City Hall, highways, engr.; adv. E. N.-R. Aug. 7.

Md., Baltimore—Aug. 13, by Bd. Awards, c/o City Register, certain sewers and drains in Sewer Dist. H-8, Contr. 65. B. L. Crozier, engr.; adv. E. N.-R. Aug. 7.

Ala., Mobile—See "Streets and Roads."

La., Baton Rouge — See "Streets and Roads."

Mich., Mason—Aug. 11, by J. E. Welsh, city clk., furnishing 27,600 ft. 8- to 24-in. vitr. pipe and specials, also constructing 5.23 mi. sanitary sewers. W. E. Zimmer, engr.

Mich., Romeo—Aug. 11, by L. Warren, village clk., 4,700 ft. 12 in. vitr. sewers, disposal plant, sludge beds, sand filter, etc. Ruhling & Holdsworth, 16549 Woodward Ave., Detroit, engrs.

Mich., Warren—Aug. 11, by F. Licht, village clk., sewage pumping station and 12,827 ft. storm and sanitary sewers in Chicago, Davy and Railroad Aves. Ruhling & Holdsworth, 16549 Woodward Ave., engrs.

Ill., Kewanee—See "Streets and Roads."

Wis., Medford — Aug. 19, by O. G. Blakeslee, 7,813 lin.ft. sewers in Center, Bway., Ogden, 2nd, 3rd and Clark Sts., for city. To exceed $25,000.

Ark., Hot Springs — See "Streets and Roads."

Tex., Dallas—E. A. Kingsley, city engr., taking bids 15,000 ft. 36 in. concrete sanitary sewer, $175,000. Former contract rescinded. Noted July 24.

Colo., Denver—Aug. 14, by Dept. Impvts. & Parks, 16 mi. 8- to 24-in. vitr. pipe, Globeville Special Sanitary Sewer Dist. $234,000. A. K. Vickery, city engr.

Calif., Los Angeles — See "Streets and Roads."

Calif., San Anselmo—Marin Co. Sanitary Dist. No. 1 taking bids lateral sewers in Fairfax Section, 51,000 lin.ft. 6 in. vitr. pipe, 650 "Y" branches, 120 ft. 6 in. wall casing, 270 cu.ft. concrete. C. C. Kennedy, Call Bldg., San Francisco, engr.

Sewers (Continued)

Calif., Santa Ana — See "Streets and Roads."

Calif., South Pasadena — See "Streets and Roads."

Calif., South San Francisco—August 18, by City Trustees, 24x36 in. monolithic concrete sewer in Butler St. and San Bruno Ave. $50,000 or more. G. A. Kneese, Courthouse, Redwood City engr. Noted Nov. 29.

BIDS RECEIVED

Pa., Phila.—See "Unclassified."

CONTRACTS AWARDED

Mass., Newton (Boston P. O.)—Sewerage work in various streets to A. Orfalo, 316 Belgrade Ave., Rosindale, $19,363.

Conn., West Hartford (Hartford P. O.)—For 400 ft. 10 in., and 1,000 ft. of 8 in. tile sanitary sewer, to Bernardino & Manocchio, 611 Franklin Ave., Hartford. Engrs. est. $25,000. Noted July 17.

Md., Baltimore—For 1,420 lin.ft. 27- to 36-in. rein.-con. drain, and 3,000 lin.ft. 10- to 15 in. vitr. sewer and drains, in Contr. 71, to P. Marocco, 638 South Linwood Ave., $20,174. Noted July 10.

La., Laurel—See "Streets and Roads."

Miss., Laurel—See "Streets and Roads."

Mich., Springwells—Vitr. rock and concrete sewer in special assessment Dist. 30, to A. Arciari, 425 Puritan Ave., Detroit, $30,967.

Ia., Storm Lake — See "Streets and Roads."

Minn., St. Cloud—For 11,000 lin.ft. 10- to 24-in. vitr. sewer laterals, 2 jobs, to Eklund Constr. Co., Duluth, $17,169; 3 jobs, to Koland & Nodland, Starbuck, $14,000; 1 job, to J. J. Wystarch, St. Cloud, $118; 1 job, to W. E. Lovell, 1415 Southeast 8th St., Minneapolis, $309.

Kan., Girard—See "Waterworks."

Kan., Independence — Sewage pumping plant, to A. H. Sherwood, Independence, $20,207. Noted June 19.

Kan., Neodesha—City will build sanitary sewerage system by day labor. $25,000.

Kan., Phillipsburg — Sanitary sewerage system and disposal plant, to H. J. Taylor Constr. Co., Bellville, $82,371.

Mo., Brookfield—For 7,580 ft. 8- to 10-in. vitr. clay sewer, to R. W. Langston, 730 Fort St., Springfield.

Mo., St. Louis—See "Streets and Roads."

Ark., Bentonville—To Benson & Farrar, 120 South 2nd St., Guthrie, Okla., 14 mi. sewers in Impvt. Dist. 1, $85,560. Noted July 10.

Tex., Brady—See "Streets and Roads."

Ore., Portland—City **(e. e. means engrs. est.)** 1,129 ft. sewers in 45th Ave., to Jacobson-Jenson Co., 407 Stanton St., $8,889, e. e. $9,545, 320 ft. in Kuoph Ave., to G. Carlson, Portland, $390, e. e. $482; 1,702 ft. in Winchel St., to Portland Realty & Trust Co., Railway Exch. Bldg., $2,230, e. e. $2,627; 567 ft. in East 51st St., to E. Sandberg, Portland, $742, e. e. $1,025; 312 ft. in alley, block 18, to S. D. Azar, Portland, $465, e. e. $563.

Calif., Compton — See "Streets and Roads."

Ont., Toronto—York Twp., 40 Jarvis St., 2 mi. 9 in. vitr. tile storm and lateral sewers in Oakwood Ave., Rogers Rd. and Northcliffe Blvd., to Mitchell Bros., 43 Elmwood Ave., London, $33,000. Noted July 17.

Ont., Toronto—York Twp., to J. H. McKnight Constr. Co., 88 St. Davids Ave., 1¼ mi. brick sewer in Sect. 1, main sewer between Dufferin St. and Atlas Ave., $194,430; to A. Cavotti, 257 Euclid Ave., Sect. 2, subsidiary sewer between High and Bathurst Sts., $34,885; to W. E. Taylor, 22 Falcon St., Sect. 3, subsidiary sewer in Cedarvale Sect., $22,987.

Bridges

PROPOSED WORK

Pa., Pittsburgh — Allegheny Co. plans 60 ft. concrete span bridge over Loebs Run near Walton Station, $25,000; one 30 ft. concrete span bridge over South Flahertys Run, $25,000; 55 ft. concrete span bridge over Robinson Run, from State St. to Union Ave., $54,000.

Fla., Nichols—Polk Co. (Bartow), voted $40,000 bonds 300 ft. concrete and steel span, to replace frame bridge, here. J. D. Raulinson, clk.

Kentucky and Indiana — Owensboro, Rockport & Chicago R.R. Co., Owensboro, Ky., plans steel truss bridge over Ohio River, between Owensboro, Ky., and Rockport, Ind. $500,000.

Kan., Kansas City—Kansas City Terminal R. R. Co., Union Station, soon takes bids 1,934 ft. rein.-con. viaduct with 36 ft. roadway, concrete and wood block paving. $450,000. J. V. Hanna, c/o owner, engr.

Ill., St. Marie—Jasper Co. plans one 170 ft. span steel truss bridge with concrete abutments over Embarrass River, near here. $25,000.

Minn., Duluth—F. W. Borgen, aud. St. Louis Co., rejected bids for steel bridge 23 ft. to 100 ft. span, on North Rd. near Forbes, north of here. Noted July 10.

Tex., Houston—Harris Co. making plans 15 rein.-con. bridges and culverts on State Highway 19. $50,000. Howe & Wise, 816 First Natl. Bank Bldg., engrs.

Tex., San Antonio — See "Streets and Roads."

Tex., Sulphur Springs—See "Streets and Roads."

Calif., Yuba City — Sutter Co. making plans to construct 300 ft. rein.-con. bridge on concrete piling over Nicolaus Causeway. $175,000. W. Shearer, co. surv.

BIDS DESIRED

Rhode Island—Aug. 20, by State Bd. Pub. Roads, Providence, constructing First and Second Barberville Bridges in Richmond-Hopkinton; Potter Hill Bridge in Hopkinton-Westerly; New Harbor Road Bridge in New Shoreham; and Meeting House Bridge in Hopkinton-Westerly. C. L. Hussey, engr.; adv. E. N.-R. Aug. 7.

New Jersey— Aug. 18, by State Hy. Comn., Trenton, constructing single leaf bascule span with 30 ft. clear roadway and 50 ft. clear channel way, concrete and timber substructure, timber approaches, and temporary bridge over Cedar Bonnet, Manahawken Bay, Ocean Co. A. L. Grover, secy.; adv. E. N.-R. Aug. 7.

Pa., Doylestown—Aug. 19, at office Commissioners Bucks Co., 280 ft., 3 span rein.-con. bridge, 37 ft., over Neshaminy Creek, State Highway Route 150. J. S. Roberts, Jr., co. engr.; adv. E. N.-R. Aug. 7.

S. C., Kingstree — Aug. 13, by J. B. Mayes, engr., Williamsburg Co., one 193 ft. rein.-con., and two creosoted timber, 7 to 14 ft. spans, bridges over Black River, State Route 26, Federal Aid Project 247.

Ga., Macon—Aug. 19, at office O. Clarke, city clk., concrete bridge over Okmulgee River, on 5th St.; adv. E. N.-R. Aug. 7.

Michigan—Aug. 11, by State Hy. Dept. at office Comrs. Luce Co., Newberry, Bridge 480101, one 50 ft. concrete girder, 344 cu.yd. concrete, 28,186 lb. steel, etc., also one 45 ft. through concrete girder. G. C. Dillman, Lansing, ch. engr.

Michigan—Aug. 12, by State Hy. Dept. at office Comrs. Dickinson Co., Iron Mountain, Bridge 220,601, one 75 ft. through truss concrete girder, 403 cu.yd. concrete, 55,441 lb. steel.

Mich., Lansing—Aug. 11, by City Clerk, furnishing and erecting superstructure and rebuilding part of substructure, also placing road and sidewalks on River St. Bridge. O. E. Eckert, city engr.

Illinois—Aug. 12, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, 170 ft. span, 20 ft. roadway, known as St. Marie Bridge at Newton, Jasper Co., superstructure, (HC-15-D), 171 cu.yd. class A and 162 cu.yd. class B concrete, 14,470 lb. reinforcing steel, 1,450 ft. 15 ton untreated and 450 lin.ft. 10 ton creosoted piles, etc., $15,900; substructure, (HC-15-D), 67 cu.yd. class X concrete, 6,650 lb. reinforcing and 183,490 lb. structural steel, etc., $17,060. Separate bids on superstructure and substructure. G. F. Burch, highway engr.

Minn., Carlton—See "Streets and Roads."

South Dakota—Aug. 12, by State Hy. Comn., Pierre. **(F. A. P. means Federal Aid Project)**, constructing one 34 ft. and one 33 ft., concrete viaducts on F. A. P. 166, McCook Co., 16,154 lb. reinforcing, and 1,840 lb. structural steel, one 60 ft. viaduct and three 75 ft. pony truss spans on F. A. P. 180 C, Corson Co., 54,253 lb. reinforcing, 18,564 lb. structural steel; one 34 ft. viaduct on F. A. P. 184 A, Spink Co., 7,590 lb. reinforcing, 900 lb. structural steel. F. D. Hudgins, sh. engr.

Tex., Ft. Worth—Aug. 14, by E. Moore, judge Ft. Worth Co., 443 ft. steel and concrete bridge with 12 spans, etc., over Clear Fork of Trinity River, on State Highway 10. $31,284. B. A. Davis, Court House, co. engr. Noted July 31.

California—August 18, by State Highway Comn., Sacramento, one 35 ft. concrete bridge over Robbers Creek, one 90 ft. timber and concrete trestle over Baxter Creek, one 150 ft. timber and concrete trestle over Long Valley Creek in Lassen Co., R. M. Morton, Forum Bldg., Sacramento, state highway engr.

Calif., Riverside—Aug. 11, by Supervs. Riverside Co., constructing San Jacinto Bridge involving 250 cu.yd. excav., 320 cu. yd. concrete, 10 ton reinforcing steel, 20 M ft. form timber. A. C. Fulmer, Riverside, co. surv.

Que., Upton—Provincial Hy. Dept., Quebec, taking bids 80 ft. bridge over Noire River here. $25,000. I. E. Valle, ch. engr.

BIDS RECEIVED

Pa., Phila.—See "Unclassified."

Tex., Lufkin—See "Streets and Roads."

CONTRACTS AWARDED

Vermont—State Highway Dept., Montpelier, 72 ft. 6 in. span, girder bridge, concrete floor and approaches on Federal Aid Project 67 A at Randolph to G. H. Stebbins, North Attleboro, Mass., $29,494; four concrete side girder bridges, 40 ft. clear span with gravel surfaced approaches on Federal Aid Project 65 A at Castleton to M. J. Burrington, Bennington, $27,476. Noted July 31.

Mass., Cambridge (Boston P. O.)—Draw span, Sixth St. Bridge, to Boston Structural Steel Co., Inc., Albany St., $44,462. Noted July 3.

Conn., Ansonia—Pub. Wks. Dept., City Hall, strengthening bridge at Meadow St. to New England Iron Wks., 1351 Dixwell Ave., New Haven, $51,000. Engrs. est. $50,000.

Pa., Pittsburgh—Allegheny Co. repairing floor Bridge 9, over Allegheny River at Highland Park, to J. W. MacLaughlin, Jr., Park Bldg., $40,067.

Ill., Wheaton—DuPage Co., St. Charles and Fullersburg concrete bridges, to Joliet Bridge and Constr. Co., Joliet, $34,848.

Ia., Atlantic—See "Streets and Roads."

Arkansas — State Hy. Comn., Little Rock, Impvt. Dist. 2, 5 I-Beams, 2 steel trusses and 1 truss with I-beam approaches, on Russellville-Forest Reserve Rd., Federal Aid Project 170, Pope Co., 273,810 lb. structural steel in truss bridges and 158,750 lb. in I-Beam bridges, 43,114 lb. reinforcing, 2,077 cu.yd. rubble masonry, 1,113 cu. yd. wet, and 1,843 cu.yd. dry excav., etc., to St. Louis Structural Steel Co. Bank of Commerce Bldg., St. Louis, Mo., $69,532. Noted July 17.

Okla., Oklahoma City—Oklahoma Co., 160 ft. 2 span steel bridge with concrete abutments, Jones St., to Green Beekman Co., 419 West 21st St., $45,000; engrs. est. $50,000. 160 ft. 2 span bridge with concrete abutments at May Ave., to Boardman Co., West Maple St., Oklahoma City, $54,256 engrs. est. $60,000.

Wash., Seattle—Bd. Pub. Wks., superstructure bridge over Lake Washington, Montlake Ave., to Wallace Equipment Co., 11th, South West and West Hanford Sts., $160,453; substructure to C. L. Creelman, 1079 25th St. N. $159,269. Noted July 10.

Ore., Portland—Multnomah Co., Burnside Bridge, 2,307 ft., 3 spans and approaches, steel superstructure, over Willamette River, on Burnside St., to Pacific Bridge Co., foot of East Salmon St., $2,370,473.

Calif., Los Angeles—Los Angeles Co., rein.-con. arch bridge over San Luis Rey River, on Mission Rd., to McKay Eng. Co., Railway Bldg., $129,471.

Calif., Polaris—State Highway Comn., Sacramento, 398 ft. rein.-con. bridge over Truckee River, here, Nevada Co. to Proctor & Cleghorn, Rosenberg Bldg., Santa Rosa, $50,425. Noted July 17.

Dams

PROPOSED WORK

Calif., Red Bluff—See "Buildings—Industrial."

Calif., Red Bluff — See "Excavation, Drainage, Irrigation."

CONTRACTS AWARDED

New Zealand, Wellington — See "Buildings—Industrial."

Railways

PROPOSED WORK

Kentucky—Owensboro Rockport & Chicago R.R. Co., Owensboro, plans 84 mi. electric railway from Owensboro to Elmora, Ind. $2,000,000.

Indiana—See "Kentucky."

Oklahoma—Chicago, Rock Island & Pacific R.R. Co., LaSalle St. Station, Chicago, having surveys made extension of Enid-

Railways (Continued)

Billings line to Tonkawa oil fields. $250,000. O. A. Morse, ch. engr.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, plans to extend Kirkland Lake Branch about 20 miles to reach Rouyn Gold Dist. in Quebec. $1,000,000. S. B. Clement, ch. engr.

CONTRACTS AWARDED

Ill., East St. Louis—East Side Levee & Sanitary Dist. 225 A Collinsville Ave., three 10x12 ft. sluicegates for diversion canal, steel and rein.-con., to H. H. Hall Constr. Co., Murphy Bldg., East St Louis.

Excavation, Drainage, Irrigation

PROPOSED WORK

Calif., Madera—San Joaquin River Water Storage Dist., having preliminary plans prepared, storage dam and power house near Friant on San Joaquin River, reservoir to store probably 200,000 acre ft. water and approximately 30,000 hp. to be developed at power plant, distributing system for irrigating 550,000 acres. $25,000,000 to $30,000,000. A. J. Wiley, Boise, Idaho, consult. engr., and H. Barnes, Los Banos, resident engr. Noted aJn. 17.

Calif, Red Bluff—Irrigation Dist. making plans irrigating approximately 35,000 acres, 19 mi. canals from 3½ to 7½ ft. wide at bottom and 1.8 to 6.6 ft. deep; concrete diversion dam 10 ft. high, 435 ft. long; hydraulic concrete storage dam, 120 ft. high, 450 ft. long on top and 50 ft. on bottom, storing 15,000 acre ft. water; pumping plants, etc. $400,000. S. E. Kieffer, 57 Post St., San Francisco, consult. engr.

Ont., Belle River—See "Unclassified."

Ont., Point Edward—Dept. Pub. Wks., Ottawa, plans dredging, deepening and improving harbor at mouth of St. Clair River, here. $100,000. A. Craig, Royal Bank Bldg., London, engr.

BIDS DESIRED

Massachusetts—Aug. 14, by Dept. Pub. Wks., Div. Waterways and Pub. Lands, State House, Boston, dredging 13,000 cu.yd. material from Ipswich River, from Nabby's Point to Averills Wharf to depth of 4 ft. W. F. Williams, Comm.

Miss., Sledge—R. F. Jepsen taking bids 325,000 cu.yd. excav., suitable for dragline with 60 ft. boom, 1½ to 2 yard bucket.

Ark., Bridge Junction—Aug. 20, by Bd. St. Francis Levee, H. D. Tomlinson, pres., 2 new sub-levees, 70,000 cu.yd. excav., 200 cu.yd. rein.-con. culverts, spillways and aprons. H. N. Pharr, Bridge Junction, ch. engr.

Ore., Astoria—Aug. 11, by City Comn., 950,000 cu.yd. sand fill, $124,000, and 4,000 ft. timber bulkhead and rip rap, $115,000.

BIDS RECEIVED

Calif., Manteca—Bd. Directors South San Joaquin Irrigation Dist., Oakdale, lining 40 mi. canals in district, 445,000 cu.yd. excav., 3,000,000 sq.ft. 1 in. reinforced Gunite lining, from Blumenkraz & Vernon, Farmers & Merchants Bank Bldg., Stockton, Lateral Q at $0.102 per sq.ft., Lateral R $0.0975, Lateral T $0.098; 2 in. hand placed concrete, from Carlson Bros., Turlock, Lateral Q, $0.0915, from C. W. Wood, Manteca, Lateral T $0.085. Noted July 10.

CONTRACTS AWARDED

N. J., Jersey City—Hudson Co. Park Comn., Dredging West Side Park, etc., to Arundel Corporation, Pratt St. Baltimore, Md.

La., Napoleonville — Assumption D. D. draining system and levees, etc., 900,000 cu.yd. excav. to Ruth Dredging Co., Franklin, $0.155 per cu.yd., total $139,500.

Mo., Washington — Labaddie Bottoms D. D. levees and drainage ditches, to J. P. Clark & Co., Independence, $19,240.

Streets and Roads

PROPOSED WORK

Mass., Boston — Plans constructing Maple, Minot and Hyde Sts., in Dorchester and Roxbury, $25,000; Radnor, Kirkwood and Scottfield Rds. in Brighton, $25,000. J. F. Sullivan, Street Laying-Out Dept., City Hall, secy.

Mass., Medford (Boston P. O.)—Plans to macadamize Spring St. and Boston Ave., $25,000, and widen south side Salem St. from Riverside Ave. to River St., $29,000. C. Connock, city engr. Noted June 5.

Mass., Quincy (Boston P. O.) — Plans paving various streets, $95,000. P. F. O'Brien, city engr.

FILTER PLANT—DENVER, COLO.

Bids were opened by Bd. Water Comrs., City and Denver Co., 1509 Cleveland Pl., Denver, June 10, for filter plant at Marston Lake, North Side, Contr, "A", (A) Dutton & Kendall Co., 2161 Broadway, (awarded contract); (B) C. S. Lambie Co., 1731 Stout St. The unit bids were as follows:

	A	B
70,210 cu.yd. earth excavation and embankment other than 1B	$0.95	$0.98
290 cu.yd. earth excavation for piers under head house (1B)	13.16	6.00
5,100 cu.yd. rock excavation	2.63	2.61
4,100 cu.yd. rock fill	1.65	1.60
1,200 cu.yd. sand and gravel fill	1.65	1.60
54,400 sq.yd. top soil and grading	.20	.20
200 sq.yd. sodding	3.55	3.00
11.2 acres seeding	151.39	160.00
10,200 sq.yd. gravel roads	1.32	1.27
1,650 sq.yd. gravel paths	1.25	1.26
755 ton reinforcing steel	140.85	138.50
3,900 cu.yd. concrete, foundations and paving	17.97	18.25
10,350 cu.yd. concrete, reinforced in forms	27.64	30.00
215 cu.yd. concrete, precast	78.98	76.00
55 cu.yd. concrete, top course in floors	45.48	42.50
23,300 bbl. cement	2.90	2.90
86,100 lb. miscellaneous iron and steel	.16	.16
7.8 M.bd.ft. miscellaneous woodwork	263.28	285.00
150 tons cast iron pipe and specials	179.00	180.00
13.1 tons steel pipe and fittings	260.00	269.00
2.1 tons genuine w.i. pipe and fittings	370.00	360.00
75 lin.ft. 10 in. vitrified sewer pipe	.61	.61
450 lin.ft. 8 in. vitrified sewer pipe	.46	.45
605 lin.ft. 6 in. vitrified sewer pipe	.33	.34
210 lin.ft. 4 in. vitrified drain tile	.24	.27
Gates, valves and hydrants (lump sum)	96,229.00	98,452.50
600 aerator nozzle	26.30	21.80
14 filter piping	11,620.00	13,410.00
14 filter regulating apparatus	3,700.00	3,450.00
Superstructure of filter house (lump sum)	38,756.00	42,000.00
Superstructure for additional 2 filters (lump sum)	3,905.75	6,350.00
Superstructure for boiler, pump and head house (lump sum)	45,779.00	49,526.00
Superstructure for aerator house (lump sum)	6,212.00	7,400.00
Heating and plumbing (lump sum)	29,300.00	20,500.00
Electrical lighting and wiring (lump sum)	21,600.00	14,800.00
4 dry feed chemical machines	3,690.00	3,100.00
Meters and gauges (lump sum)	13,530.00	12,400.00
Sand washing apparatus (lump sum)	4,023.00	4,180.00
1 extra sand washing for 2 filters	766.00	610.00
Adjusted price DeLaval equipment (lump sum)	106,343.00	128,460.00
Adjusted price Worthington equipment (lump sum)	112,387.00	134,100.00
Adjusted price Allis-Chalmers equipment (lump sum)	.....	.....
Adjusted price Cameron equipment (lump sum)	112,254.00	.....
850 cu.yd. filter gravel	4.28	4.25
3,500 cu.yd. placing filter sand	.79	.68
Chlorine apparatus (lump sum)	8,475.00	8,680.00
1 filtration plant appurtenances	18,120.00	19,600.00
45 M. miscellaneous brickwork	68.45	64.00
Electric Crane (lump sum)	3,502.00	3,610.00
Cost plus ($10,000) per cent	15	15
50 M. bd. ft. timber, sheeting and shoring	105.31	100.00
10 ton steel sheeting and shoring	181.00	175.00
Extended totals	$1,387,662	$1,446,132

INTAKE—DENVER, COLO.

Bids were opened by Bd. Water Comrs., City and Denver Co., 1509 Cleveland Pl., Denver, June 10, for intake for Marston Lake filter plant, Contr. "B", (A) J. Everett Young, 1267 South Race St.; (B) Mr. Weed; (C) Levy Constr. Co., Symes Bldg. The unit bids were as follows:

	A	B	C
41,500 cu.yd. earth excavation land	$1.84	$2.00	$2.50
8,300 cu.yd. earth excavation under water	2.64	5.50	7.50
150 cu.yd. rock excavation	6.00	7.00	9.00
1,150 cu.yd. rock fill under water	5.34	5.50	17.05
930 sq.yd. top soil and grading	.17	.33	5.35
100 sq.yd. sodding	10.72	1.50	3.00
0.20 acres seeding	1,249.15	135.00	100.00
300 sq.yd. gravel paths	1.79	1.25	1.20
75 tons reinforcing steel	162.91	120.00	136.00
158 cu.yd. concrete, foundations on land	9.36	15.00	16.50
710 cu.yd. concrete reinforced in forms	12.48	22.00	23.00
30 cu.yd. concrete thin sec. on land	48.62	45.00	50.00
20 cu.yd. concrete precast, intake tower	387.67	400.00	600.00
50 cu.yd. concrete deposited under water	32.55	100.00	600.00
175 cu.yd. concrete precast weights	39.52	22.00	18.00
1,900 bbl. cement	2.91	2.90	3.25
Wood top for intake tower (lump sum)	89.22	100.00	100.00
Hydraulic operated shutter valves (lump sum)	25,375.59	15,000.00	17,000.00
1,100 lin.ft. wood stave pipe 90 in.	56.80	60.00	80.00
35,400 lin.ft. ¾ in. brass pipe	.45	.40	.45
120 lin.ft. 3 in. copper pipe	6.47	3.00	3.00
54 in. cast iron flanged pipe (lump sum)	61,766.52	55,000.00	39,250.00
54 in. gate valves hand operated	Gates will be purchased by city direct		
Alternate for above, motor and hand operated	Gates will be purchased by city direct		
8,000 lb. miscellaneous iron and steel work	31.75	35	.40
5 ft. x 8 ft. screens (lump sum)	31,585.65	35,000.00	36,000.00
Screens for intake tower (lump sum)	5,109.07	2,500.00	2,700.00
Superstructure of screen house (lump sum)	6,396.00	5,500.00	5,000.00
Electric work (lump sum)	401.52	300.00	250.00
Intake appurtenances (lump sum)	367.60	300.00	250.00
Cost plus or extra work ($5,000), per cent	20	15	25
20 M.bd. ft. timber sheeting and shoring	98.13	75.00	100.00
5,500 lin.ft. wood piles	2.67	1.50	1.15
5 ton steel sheeting	251.60	100.00	120.00
Extended totals	$389,852	$400,704	$492,883

Conn., Ansonia—New Haven Co. (New Haven) plans paving Main St., here, $25,000.

W. Va., Fayetteville—Fayette Co. Kanawha Dist., plans election to vote on $250,000 bonds for roads. G. H. Siems, Fayetteville, engr.

Va., Alexandria—Soon takes bids brick and macadam surfacing King, Cameron, North Washington, Oommerce, Lee and West Walnut Sts. $125,000. E. C. Dunn, Alexandria, engr.

Fla., Bartow—Polk Co., plan widening and gravel surfacing 8 mi. Bradley-Mulberry Rd. $120,000, 8 mi. Medulla to Mulberry Rd. $120,000. 6 mi. Mulberry-Hillsborough $90,000; 8 mi. Brewster-Bradley Rd. $120,000. Bond voted for project.

Fla., Bartow—Polk Co., plans widening and gravel surfacing 6 mi. Ft. Meade-Frostproof Rd. $60,000, 6½ mi. Ft. Meade-Brewster Rd. $65,000, 4 mi. Homeland-Agricola Rd. $40,000, 4 mi. Homeland-Hurst Rd. $40,000, 4½ mi. Whidden Creek Rd. 7, $45,000, 4½ mi. Independent Chemi-

Streets and Roads (Continued)

cal Rd., $45,000, 6 mi. Ft. Meade-Agricola Rd. $60,000, 2½ mi. Tiger Bay Rd. $25,000, 6 mi. Bareah to State Rd. 8, $60,000, 2½ mi. Bareah-Athens Rd. $25,000, 9 mi. Lake Buffum Rd. $90,000, 6 mi. Bareah Rd. $25,000, 4½ mi. Wilcom School Rd. $25,000. Election Aug. 12 to vote bonds for project.

Fla., Bartow—Polk Co. plans to scarify and reshape 2⅞ mi. Cannal St., and Nichols Rd. 2 in. asphalt on rock base, 16 ft. $26,000.

Fla., Ocalo—Plan election Aug. 5, to vote $200,000 for paving and grading various streets. H. C. Sistrunk, city clk.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading and surfacing, probably bituminous concrete on limestone, 7 mi. Woodbury-Warren Co. line Rd., 18 ft. Cannon Co. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys and soon takes bids grading, bridges, etc., 10 mi. Somerville-Bolivar Rd., 18 ft., Fayette Co. J. G. Creveling, highway comr.

Tenn., Nashville — Soon takes bids widening and paving 11 blocks Church St. $200,000. W. W. Southgate, city engr. Noted Apr. 24. Work will probably be done by city forces.

La., Abite Springs—Voted $150,000 bonds for paving roads.

Ky., Ashland — Beverly Hills Development Co., Huntington, W. Va., plans roads, streets, sidewalks, sewers and water mains in new subdivision, here. $90,000.

Ky., Ashland — Plans paving various streets in Highlawn subdivision. $25,000. T. Gesling, City Hall, engr.

Ky., Bardwell—Carlisle Co. plans hard surfacing 10 mi. highway. $100,000.

Ky., Danville—Plans paving and curbing various streets. To exceed $25,000. E. F. Bates, Danville, engr.

Ky., Greenville—Muhlenburg Co. election Nov. 4, to vote on $600,000 bonds for highways.

O., Canton — Plans improving 1 mi. Cleveland Ave. N. W. $30,000. W. E. Sarver, City Hall, engr.

O., Cleveland—Cuyahoga Co. takes bids this fall paving 0.809 mi. Taylor Rd. $99,600 and 2.259 mi. Bway., from McCracken Rd. to Rockside Rd. and Tinkers Creek. $525,200. F. Lander, Court House, engr.

O., Dayton—Plans paving 6,800 sq.yd. Hudson Ave. from Main to Darr Sts., 30 ft., $27,500; 5,000 sq.ft. 4 alleys 16 ft., concrete, $7,700. J. F. Hale, city engr.

O., Youngstown—Co.nrs. Mahoning Co., plans widening 2½ mi. West Market St. from 16 to 30 ft. asphalt or concrete, $50,000.

Ill., Charleston — Making preliminary plans grading, curbing, guttering and hard-surfacing Division and Polk Sts., etc. $75,000. Address city engineeer.

Ill., Elgin — La Salle Co. making preliminary plans grading and hardsurfacing 10 mi. roads, 18 ft. $312,000. G. N. Lamb, Sourling Bldg., engr.

Ill., O'Fallon—Making preliminary plans grading, curbing and surfacing various streets, and rein.-con., brick on concrete or asphalt on concrete, $80,000. E. F. Harper, 225 Collinsville Ave., East St. Louis, Ill., engr.

Ia., Council Bluffs—Preparing plans paving 10 blocks Avenue C, Grand and 26th Aves., 23rd, 7th and 27th Sts. E. E. Spetman, city engr.

Ia., Fulton — Plans paving 20 blocks various streets, 7 in. concrete. V. Bell, city street comr.

Ia., Nashua — Plans paving 10 blocks Main St. and Turnpike between Cedar River Bridge and Illinois Central R.R. tracks. $50,000. R. B. Slippy Eng. Co., Waterloo, engrs.

Ia., Waukon — Plans paving about 42 blocks various streets. $150,000. J. D. Cowen, city clk.

Minn., St. Cloud—Making plans paving, etc., 20 blocks, $85,000. M. B. Lang, city engr.

Kan., Earle—Neosho Co. plans grading and gravel surfacing 6.952 mi. Federal Aid Project 242-A, 18 ft. O. T. Reese, co. engr.

Kan., Wichita—Plans paving 19 blocks various streets. R. L. Brockway, City Bldg., engr.

Kan., Prescott—Soon takes bids grading and paving with concrete or brick on concrete various streets. $40,000. H. E. Devlin, 614 Bitting Bldg., Wichita, engr.

Kan., Prescott — Plans paving various streets with brick or concrete. $40,000. H. C. Devlin, 714 Bitting Bldg., Wichita, engr.

Kan., Wichita—Sedgwick Co. soon takes bids grading and paving with concrete or brick on concrete 1.5 mi. from city limits to Sullivans Dam. $60,000. M. Roseberry, Wichita, engr.

Mont., Anaconda — Plans resurfacing about 17,600 sq.yd. Impvt. Dist. 105, asphaltic concrete or 2 in. Warrenite bitulithic wearing surface. $34,000. F. M. Davidson, city clk.

Mo., Cape Girardeau — Soon takes bids grading, concrete paving, curbing and guttering, etc., 10 blocks Blvd., from Normal Ave. to Bloomfield Rd. J. B. Heagler, City Hall, engr.

Mo., St. Louis—Soon takes bids grading and surfacing cement concrete, 15,600 sq.yd. McRae Ave., also alleys in city blocks 5573, 5246, 5396, 5197, 2776, 1584, 2984, 2887, 5527 and 4460. $45,000. W. W. Horner, 300 City Hall, engr.

Tex., Alice—Jim Wells Co. soon takes bids grading, etc., 13.7 mi. State Highway 12, Federal Aid Project 429-F, 26 ft. $54,010. L. W. S. Mantel, co. engr.

Tex., Anderson—Grimes Co. election Aug. 9, $1,548,500 bonds constructing roads. R. M. West, co. judge.

Tex., Cleburne—Making plans standard paving West Henderson and Wilson Sts. $30,000. W. W. Whiteker, city engr.

Tex., Dallas — Making plans and soon takes bids standard paving 3,000,000 sq.yd. 60 streets. $1,300,000. E. A. Kingsley, city engr.

Tex., Dallas—Takes bids end of August, standard paving Terry, Park Row and Philip Sts., $50,000; Garland, Cole and Vernon Sts., $50,000; Hibernia, Graham and Gould Sts., $50,000; Oak Grove, from Hall to Haskell Sts., $25,000. E. A. Kingsley, city engr.

Tex., Linden — Cass Co. making plans grading and surfacing with bituminous macadam 12 mi. State Highway 8, from here to Douglasville, 18 ft. $230,000; 9 mi. State Highway 8 from here to Marion Co. line, 18 ft., $209,500. F. E. Hess, Medical Arts Bldg., Dallas, engr.

Tex., Dickens—Dickens Co. soon takes bids grading and gravel surfacing 5.97 mi. State Highway 4, 16 ft. $65,900. J. W. Alger, co. engr.

Tex., Houston—Making plans standard paving 19 streets. $500,000. J. C. McVea, city engr.

Tex., San Antonio — Bexar Co. takes bids after Aug. 10, grading, bridging, gravel base and 1 in. rock asphalt on 8.2 mi. Seguin Rd., 18 ft. $140,000. A. C. Pancoast, co. engr.

Tex., Sweetwater—Nolan Co. soon takes bids grading, macadam surfacing, bituminous topping and bridging 15.22 mi. State Highway 1, 18 ft. $360,145. J. A. Focht, co. engr.

Okla., Blackwell — Plans grading and paving 7 blocks East Dewey Ave., 6,800 sq.yd. vertical fibre brick, 4,000 lin. ft. curbing, 3,100 cu.yd. excav. $38,000. W. R. Ritzhoupt, Jr., Blackwell, engr.

Okla., Fairfax—Plans grading and paving 11 blocks Ash, Park, 6th, 7th, Locust and Elm Sts., 13,000 sq.yd. vertical fibre brick, 6,000 lin.ft. curb and gutter, 3,200 cu.yd. earth and 600 cu.yd. rock excav. $75,000. V. V Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 8.

Okla., Guthrie—Logan Co. election Aug. 5, to vote on $750,000 bonds for hardsurfacing roads.

Okla., Holdenville — Hughes Co. voted $400,000 bonds for improving 30 mi. roads. J. M. Page, Capital Bldg., Oklahoma City, engr.

Okla., Idabel—Plans grading and paving 7 blocks Central, Main, 2nd and 3rd Sts., 15,000 sq.yd. concrete, 6,300 lin. ft. curbing, 4,500 cu.yd. excav. $60,000. Dovelson Bros., Idabel, engrs.

Okla., Nowata — Nowata Co. voted $500,000 bonds for concrete surfacing and grading 50 mi. roads. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted July 3.

Okla., Stroud—Plans grading and paving 7 blocks Main, Frisco and 1st Sts., 12,500 sq.yd. asphalt, 3,500 lin.ft. curbing, 4,200 cu.yd. excav. $65,000. Benham Eng. Co., Gumble Bldg., Kansas City, Mo., engrs. Noted Mar. 3.

Calif., Glendale—City Clerk takes bids about Aug. 7, grading, paving, etc., Elm and Linden Aves., etc., incl. sewers and waterworks, $185,000, Bonnie Brae Vernon Rd., $50,000, and Canada Blvd., $30,000. B. F. Dupuy, city engr.

Calif., Larkspur—Made plan improving Madrone Ave., 1,626 cu.yd. grading, 39,457 sq.ft. 5 in. concrete paving, etc., Magnolia Ave. 9,600 sq.ft. asphalt macadam surface, 1,548 lin.ft. concrete curb and gutter, etc. J. C. Oglesby, Courthouse, San Rafael, engr.

Calif., Los Angeles — Los Angeles Co. plans election to vote $1,000,000 bonds to construct 10 mi. Beverly Blvd. between Beverly Hills and the sea.

Calif., Martinez—Supervs. Contra Costa Co. rejected bids July 7, improving highway between Giant and San Pablo Tank Farm Rd., 108,651 sq.ft. 4½ in. asphaltic concrete paving, etc. R. R. Arnold, co. surv. Noted June 19.

Calif., Newport Beach—City plans paving streets and alleys in Balboa Island Dist. To exceed $125,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., San Anselmo—Making plans grading, curbing, gutters and sidewalks on various streets in Morningside Court, also street lighting system. $100,000 or more. E. W. Studley, city clk.

Calif., San Francisco—Bd. Pub. Wks. plans improving California St. between Kearny and Powell Sts., $24,250, Pine St. between Montgomery and Kearny Sts., $7,500, Folsom St. west from 5th St., $15,000, Fremont St. between Howard and Folsom Sts., $12,000, 6th St. between Brannan and Townsend Sts., $18,200 and Main St. between Mission and Howard Sts., $12,000. M. N. O'Shaughnessy, city engr.

Calif., Santa Cruz—Made plans to pave 4 mi. Cliff Dr., bids probably on various types. H. S. Williams, city engr. Noted June 5.

Calif., Santa Rosa—City plans improving portions of 2nd, 7th, King Sts., etc., grading, concrete curbs, gutters, sidewalks, and paving Willite asphaltic concrete surface on 4 in. macadam. $25,000 or more. V. McL. Doggett, city clk.

Calif., Ventura—Making plans paving various streets. $400,000.

Ontario—Welland Co. (Welland), plans resurfacing 18 mi. road between Port Colborne and Ft. Erie, 20 ft., oil surface or rock dust. $50,000.

Ont., Bridgeburg — Welland Co. plans concrete paving Bowen Rd. near here. $35,000. W. B. Redfern, 36 Toronto St., Toronto, engr.

Ont., Bridgeburg—Takes bids about Aug. 12, concrete paving Phipp St. $32,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Hamilton—Making plans asphalt paving Aberdeen Ave. $65,000, Hess St. $11,000, and Victoria Ave. $10,000. W. L. McFaul, city engr. Prices wanted on materials.

Ont., Ingersoll — Plans concrete paving Charles St. $35,000. Prices wanted on materials.

Ont., Niagara Falls — Making plans improving Welland Ave. $8,720, 4th Ave. from Jepson to McCrae Sts. $8,560, and from Jepson to Willmott Sts. $13,993. Work involves 9,000 sq.yd. asphalt paving, 5,000 lin.ft. concrete curbing, etc. T. S. Scott, city engr.

Ont., North Bay—Making plans and soon takes bids asphalt or bitulithic paving 8,000 sq.yd. 1st Ave., $40,000. W. Mackie, town engr.

Ont., Orillia — Having plans prepared 9,000 sq.yd. bituminous concrete or asphalt paving Coldwater St. $40,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Ottawa — Dept. Pub. Wks., soon takes bids 9,000 sq.yd., vitr. brick, wood block or asphalt on concrete in Connaught Park and Westboro. $36,000. K. M. Cameron, ch. engr.

Ont., Ottawa—Making plans and soon takes bids improving Elgin St., 6,000 sq.yd. asphalt paving 4,000-in. ft. concrete curbs and gutters. $25,000. A. F. Macallum, city engr.

Ont., Toronto—Dept. Provincial Highways soon takes bids 10,000 sq.yd. asphalt paving Bloor St. W., $45,000. G. Hogarth, 110 University Ave., ch. engr.

BIDS DESIRED

Massachusetts—Aug. 12, by Dept. Pub. Wks., Div. Highways State House, Boston, bituminous macadam paving 4,800 ft. highway in Boylston, 1,900 ft. in Sharon, and 13,537 ft. in North Andover and Lawrence; bituminous concrete paving 6,000 ft. in Farwich; graveling, 7,650 ft. in East Bridgewater, all 18 ft. W. F. Williams, comr.

Connecticut — State Highway Dept., Hartford, taking bids concrete paving Clark St. from Hartford Battery Plant to Waterbury Turnpike, in Southington. $25,000. J. A. McDonald, comr.

Streets and Roads (Continued)

N. Y., Brooklyn—Aug. 13, by E. Riegelmann, boro pres., Boro Hall, paving and repaving with asphalt Dorchester Rd., Buffalo and Saratoga Aves., Cayler, Hoyt, North 10th, Hinsdale, Lawrence, and 21st Sts.; repaving with granite block Knickerbocker Ave.

N. Y., New York—Aug. 11, by J. Miller, pres. Manhattan Boro, Municipal BIdg., repaving with granite block Telegram Sq., Hudson, Durane, West 45th and West 69th Sts., also repaving asphalt pavements where directed.

N. Y., St. George — Aug. 11, by J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving with bituminous concrete Richmond Rd. and North Burgher Ave.; repaving with granite block pavement Richmond Terrace, etc.

N. Y., Sea Cliff—Aug. 19, by Village Bd., 50,000 lin.ft. concrete curb and gutters. W. E. Fuller, Swathmore, Pa., engr.; adv. E. N.-R. Aug. 7.

New Jersey—Aug. 11, by G. C. Bergen, purch. agt., Essex Co., (Newark), resurfacing Runnymede Rd. from Bloomfield to Roseland Aves., in Caldwell and Essex Fells, widening pavement on Sanford Ave., in Irvington, and constructing retaining wall on Little Falls Rd., in Cedar Grove. W. A. Stickel, Court House, Newark, engr.

New Jersey — Aug. 18, by State Hy. Comn., Trenton, widening Route 3, Sect. 12, Atlantic Co.; constructing Route 14, Sect. 10 and Route 14, Sect. 11, both Cape May Co. A. L. Grover, secy.; adv. E. N.-R. Aug. 7.

N. J., Freehold—Aug. 20, by Bd. Freeholders Monmouth Co., Court House, rein.-con. paving 0.62 mi. road from Main St. Matawan to Middlesex Co. line on Matawan-Old Bridge Rd. 66, also 1.63 mi. West Long Branch-Interlaken Rd. 41 through Oakhurst. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Aug. 7.

N. J., Newton—Aug. 21, by Bd. Freeholders Sussex Co., concrete paving 12,340 sq.yd. North Church Franklin Rd., Hardyston Twp. H. Snook, Newton, co. engr.; adv. E. N.-R. Aug. 7.

N. J., Red Bank—Aug. 18, by Boro Council, reconstructing Reckless Pl. G. K. Allen, Jr., 60 Broad St., boro. engr.; adv. E. N.-R. Aug. 7.

Pennsylvania—Aug. 26, by State Dept. Hys., Harrisburg, bituminous on concrete or rein.-con. surfacing 22 mi. 12 projects in ten counties. P. D. Wright, secy. highways; adv. E. N.-R. Aug. 7.

Pa., Altoona—Aug. 11, by City Council, rein.-con. and carolite paving 6,000 ft. 21 streets, 20, 24 and 26 ft. $75,000. H. J. Baum, city engr.

Pa., Greensburg — Aug. 25, by W. A. Arter, controller Westmoreland Co., improving Gossar-Hill, Oakgrove-Waterford-Johnstown and Dennison-Marguerite Rds.

Maryland — Aug. 19, by State Roads Comn., Baltimore, concrete paving 3.7 mi. Howard Co., Contr. HO-47, 1 mi. Prince George Co., Conr. P.-54. 1 mi. Talbot. Co., Contr T-20, 1.47 mi. Worcester Co., Contr. WO-40; graveling 2 mi. Charles Co., Contr. CH-31. J. N. Mackall, c'n.; adv. E. N.-R. Aug. 7 and 14.

S. C., Rock Hill—Aug. 15, at office W. W. Miller, engr. York Co. (York) 1.08 mi. State Route 7, Federal Aid Project 246, 1,563 cu.yd. earth excav., 11,438 sq.yd. plain cement surfacing ,etc.

Ala., Mobile—Sept. 4, by Bd. City Comrs., paving, curbing, storm sewers in various streets. Wright Smith, city engr.; adv. E. N.-R., Aug. 7.

Louisiana—Aug. 12 by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 3.77 mi. sect. A and 5 mi. sect. B State Project 408, Archibald-Monroe Highway, Richland Parish. J. M. Fourmy, state engr. Noted July 10.

La., Baton Rouge—Aug. 15, paving 100,000 yd. various streets. and 3,000 cu.yd. storm sewers. J. W. Billingsley, Interstate Bank Bldg., New Orleans, engrs.

La., Baton Rouge—Aug. 20, by City Clerk, 100,000 sq.yd. Warrenite or asphaltic concrete paving various streets. J. W. Billingsley, Interstate Bank Bldg., New Orleans, engr.

O., Akron—Aug. 11, by W. F. Peters, dir. Pub. Serv., paving, grading, curbing and laying sidewalks on 4,300 ft. Riverside Dr., et al, 24 ft., $80,000, 160 ft. Bates St. 20 ft., $4,000, 2,000 ft. Aqueduct St., 30 ft., $30,000, 730 ft. Garden Alley, 20 ft., $7,000; grading and paving 800 ft. Stadelman Ave., 24 ft. with vitr. brick or asphalt, $14,500; grading, curbing, paving, laying sidewalks, sewers and laterals 600 ft. Ackley St. 24 ft., with vitr. brick or asphalt, $13,000; grading, laying sidewalks, gutters and cindering, 1,025 cu.yd. Fuller St., $14,000; grading, curbing, paving, repaving, resurfacing and laying sidewalks on 2,360 ft. Bowery St., 40-56 ft., $60,000. Noted July 10, 17, 24 and 31.

O., Akron—Aug. 12, by Comrs. Summit Co., grading and paving 4.2 mi. Cleveland-East Liverpool Rd., I. C. H. 12, 16 ft., $152,000, and 1.502 mi. Barberton-Springfield Rd. 14, Sect. Q, 17 ft. 4 in. $70,000. R. E. Willems, Court House, engr.

Ind., Brownstown—Aug. 11, by Comrs. Jackson Co., grading and graveling 6 mi. Schrorer Rd. $35,620. E. B. Douglas, Brownstown, engr. Noted July 31.

Ind., Crawfordsville—Aug. 8, by Comrs. Montgomery Co., concrete paving 21,331 sq.yd. Bowers Rd. $55,465. W. Harding, Crawfordsville, engr. Noted July 31.

Ind., Richmond — Aug. 9, by Comrs. Wayne Co., asphalt paving 17,276 sq.yd. Portersfield Rd. $39,735. H. H. Horton, Richmond, engr. Noted July 31.

Ind., Shelbyville — Aug. 8, by Comrs. Shelby Co., grading and graveling 24,060 ft. Comstock Rd. 24 ft., $27,250. G. E. Oltman, Shelbyville, engr. Noted July 31.

Ill., Kewanee — Aug. 18, by Bd. Local Impvts. grading and paving also storm sewers in Tenney and East Sts. J. H. Andrews, pres.; adv. E. N.-R. Aug. 7.

Wis., West Allis—Aug. 18, by Bd. Pub. Wks., A. Wichner, supt., grading approximately 40,000 cu.yd. various streets. To exceed $25,000. W. Darby, City Hall, engr.

South Dakota — Aug. 12, by State Hy. Comn., Pierre, (**F. A. P. means Federal Aid Project**), improving, 11.11 mi. F. A. P. 161, Hanson Co., 72,555 cu.yd. common excav., 152.96 cu.yd. concrete, 12,812 lb. reinforcing, etc.; 10.94 mi. F. A. P. 166, McCook Co., 98,256 cu.yd. common excav., 128.39 cu.yd. concrete, 9,583 lb. reinforcing, etc.; 10.95 mi. F. A. P. 180C, Corson Co., 124,227 cu.yd. common excav., 249.9 cu.yd. concrete, 22,627 lb. reinforcing etc.; 14.01 mi. F. A. P. 184A, Spink Co., 118,780 cu.yd. common excav., 125.43 cu.yd. concrete, 8,152 lb. reinforcing, etc. F. D. Hudgins, ch. engr. Noted May 1.

Minn., Elbow Lake—Aug. 18, by C. M Nelson, and. Grant Co., improving roads 60,777 cu.yd. earth, 450 cu.yd. loose rock and 10 cu.yd. solid rock excav., 129,680 cu.yd. overhaul, 1,414 lin.ft. 12- to 24-in. concrete pipe. W. E. Burgess, Elbow Lake, engr.

Kan., Kansas City—Aug. 14, by H. V. Hanna, engr., c/o owner, 1,964 ft. rein.-con. viaduct, 36 ft. roadway, concrete and wood block paving, for City and Kansas City Terminal R.R. Co., Union Sta. $450,000. Noted July 31.

Kan., Smith Center—Aug. 14, by Black & Veatch, engrs., 700 Mutual Bldg., Kansas City, Mo., improving 4 mi. Federal Aid Project 212-A, Smith Co., 29,295 cu.yd. excav., 2,651 lin.ft. guard rail, 1,427 cu.yd. borrow, 33,927 lb. reinforcing, 500 ft. 15- to 18-in. rein.-con. pipe, etc.; also 4 mi. Federal Aid Project 193-A, Smith Co., 30,548 cu.yd. excav., 5,115 lin.ft. guard rail, 4,300 lin.ft. hedge, 1,100 ft. borrow, 42,000 lb. reinforcing, 530 ft. 15- to 18-in. rein.-con. pipe, etc., for Smith Co., here.

Kan., Wichita—Aug. 11, by City Clerk, improving East, Lewis, Morris, Kansas, Volustia, Wilton and 16th Sts., 15,403 sq.yd. asphaltic concrete paving, 7,468 cu.yd. excav., 1,643 sq.yd. 3 in. sand fill, 8,641 cu.yd. combined curb and gutter, 450 cu.yd. curb, 1,145 cu.yd. gutter; Ellis, alley South of Douglas St., Volustia, Wichita, Estelle, Cook, alley between Market and Lawrence Sts., and Vassar Sts., 12,593 sq.yd. concrete paving, 4,606 cu.yd. excav., 5,604 cu.yd. combined curb and gutter, 4,088 sq.yd. sand fill, 334 cu.yd. curb, 1,380 cu.yd. gutter; alley between Pearl and Douglass Sts., 450 sq.yd. brick paving, 180 cu.yd. excav.; Fountain, Vassar, and Victor Sts., 4,006 sq.yd. sheet asphalt paving, 1,520 sq.yd. sand fill, 3,080 cu.yd. combined curb and gutter, 3,190 cu.yd. excav., etc. R. L. Brockway, City Bldg., engr. Noted June 12.

Neb., Crete—Aug. 9, by City, c/o C. E. Beals, paving, curbing and grading Dist. 4. $60,000. H. A. Davis, Crete, engr.

Neb., Omaha—Aug. 19, by B. Crawford, judge Douglas Co., grading, draining and hard surfacing 1.5 mi. Road No. 41 (Pacific St.), 18 ft.

BRIDGE—OREGON

Bids were opened by State Highway Comn., Salem, May 28, for constructing bridge over Willamette River at Harrisburg. (A) Portland Bridge Co., Leon Bldg., (awarded contract); (B) Union Bridge Co., Porter Bldg.; (C) Lindstrom & Feigenson, Worcester Bldg. Contractors all of Portland. The unit bids are as follows:

	A	B	C
600 cu.yd. dry excavation	$4 00	$3.00	$2 50
2,000 cu.yd. wet excavation	6 00	6.00	10 00
400 cu.yd. extra wet excavation	7 00	6.00	10 00
7,000 lin.ft. fir piling	50	.60	.60
22,000 lin.ft. cedar piling	70	.60	.60
900 cu.yd. class B concrete	20 00	22.00	18 00
375 cu.yd. class A concrete	20 00	22.00	22 00
105,000 lb. reinforcing bars	.06	.07	.06
70,000 ft. b.m. lumber	60 00	60.00	50 00
900,000 lb. structural steel	.076	.075	.075
1675 lin.ft. trestle	16 00	18 00	17 00
200 cords fascines	20 00	12 00	12 00
1,250 cu.yd. rock fill	8 00	9 00	6 00
1,900 sq.yd. slope paving	1 00	1 00	2 00
Extended totals	$183,200	$186,400	$186,825

ROAD WORK—KENTUCKY

Bids were opened by State Highway Comn., Frankfort, for constructing 19.22 mi. Henderson-Madisonville Rd., Webster Co., (A) A. J. Hoffman, North Adams, Mich.; (B) Willis & Smeathers, Owensboro; (C) M. E. Stone & Co., Madisonville; Globe Contg. Co., Evansville, Ind., $234,548. The unit bids of the lowest three bidders are as follows:

	A	B	C
16,500 cu.yd. earth excavation	$0 55	$0 50	$0 50
720 cu.yd. borrow excavation	55	.70	60
1,015 sta.yd. grading and shaping	5 00	1.00	5 00
7,600 sq.yd. overhaul	04	.04	05
3.4 cu.yd. class A concrete	20 00	30.00	26 00
40 lin.ft. 18 in. concrete pipe	3 50	5.00	4 00
40 lin.ft. 18 in. vitrified pipe	3 00	4.00	4 00
3.59 cu.yd. encasing concrete	20 00	30.00	26 00
63,945 tons unrolled bank gravel	3 25	3.40	3 45
Extended totals concrete pipe	$222,879	$227,788	$234,166
Extended totals vitrified pipe	222,931	227,855	234,449

HIGHWAY—CALIFORNIA

Bids were opened by State Highway Comn., Sacramento, June 16, for constructing highway in Nevada Co., Div. 3, Route 38, Sect. B, (A) Irey & Holden, Lodi; (B) Walter M. Willett, San Francisco; (C) W. J. Burton & Co., Los Angeles. The unit bids are as follows:

	A	B	C
179,000 cu.yd. roadway excavation without classification	$1.25	$1.27	$1.59
181,000 sta.yd. overhaul	0.02	0.02	0.02
800 cu.yd. structure excavation without classification	1.50	2.25	2.50
235 cu.yd. class "A" Portland cement concrete (structures)	32.00	30.00	40.00
140 cwt. reinforcing steel in place (structures)	6.00	7.00	10.00
2,448 lin.ft. 18 in. corrugated metal pipe	1.00	1.20	1.00
316 lin.ft. 24 in. corrugated metal pipe	1.50	2.00	1.25
225 cu.yd. rubble masonry (retaining walls)	20.00	10.00	25 00
110 cu.yd. dry rubble (retaining walls), monuments complete	5.00	4.00	8.00
104 monuments complete in place	2.50	2.00	3.00
Extended totals	$245.162	$247,248	$310,690

Streets and Roads (Continued)

S. D., Sioux Falls—Aug. 18, paving, etc., about 6,644 sq.yd. 19th St. between Covell and Western Aves., 4,166 sq.yd. Main St. between 21st and 26th Sts. $35,000. W. C. Leyse, city aud.

Mo., St. Louis — Aug. 26, by Bd. Pub. Serv., 208 City Hall, grading and paving with granitoid sidewalks 4- to 6-ft. wide on Kingshighway, from Arsenal to Kingshighway Southwest, and other streets. $34,390. W. W. Horner, 300 City Hall, engr.

Tex., Alice—Aug. 19, by L. W. S. Mantel, engr. Jim Wells Co., grading, etc., 13.7 mi. State Highway 12, 18 ft. $160,000.

Tex., Amarillo — Aug. 15, by Comrs. Potter Co., 10,332 sq.yd. concrete or 3 in. brick on 5 in. concrete paving St. Francis Highway, State Highway 33, Federal Aid Project 421-A. $35,000. Former bids rejected. O. A. Seward, co. engr.

Tex., Dallas — Aug. 15, by E. A. Kingsley, city engr., paving, curbing and guttering Hibernia, Graham, Gould, Garland, Cole, Vernon, Terry, Park Row, Philip Marilla, Holland, Washington, Salem, Oak Grove, Christler, Beacon, Hawthorn, Blackburn and 8th Sts., alternates on all standard bituminous pavements, incl. Warrenite bitulithic, rock asphalt, Willite, asphaltic concrete, etc.

Tex., Ft. Worth—Aug. 14, by E. Moore, judge Tarrant Co., grading, surfacing with native stone base and 1½ in. inverted penetration bituminous topping 7.71 mi. State Highway 10, Federal Aid Project 300-B, 18 ft. base, 16 ft. top. $120,648. B. A. Davis, co. engr.

Tex., San Marcos—Aug. 14, by Mayor, 20,000 yd. or more ½ in. bituminous topping on various streets. $28,000. Private plans.

Tex., Sulphur Springs—Aug. 22, R. E. Bertram, judge Hopkins Co. grading and bridging 8.3 mi. State Highway 1, Federal Aid Project 431-D, 26 ft. $69,925. J. B. Rieman, co. engr.

Tex., Trenton—Taking bids concrete paving, curbing and guttering various streets. $25,000 plus. B. Price, Bonham, engr.

Oklahoma—Aug. 12, by State Hy. Dept., Oklahoma City, improving 5.0956 mi. Federal Aid Project 69-A-1 and B, Carter Co., 32,803 cu.yd. earth, 446 cu.yd. loose rock and 446 cu.yd. solid rock excav., 4,178 cu.yd. overhaul, 8,256 cu.yd. borrow, 1,148 cu.yd. concrete, 96,201 lb. reinforcing, etc.; 15.732 mi. high type road, Federal Aid Project 112-E, F and G, Cleveland Co., 52,748 cu.yd. earth, 1,114 cu.yd. loose rock, and 1,114 cu.yd. solid rock excav., 7,750 cu.yd. overhaul, 91,437 cu.yd. borrow, 152,368 lb. reinforcing, 45,000 lb. structural steel, 166,123 sq.yd. paving, etc.; 3 mi. Federal Aid Project 89-B-1, Carter Co., 17,678 cu.yd. earth, 230 cu.yd. loose rock, and 2,606 cu.yd. solid rock excav., 6,158 cu.yd. overhaul, 6,582 cu.yd. borrow, 42,370 lb. reinforcing, etc. J. M. Page, highway engr.

Colorado—Aug. 12, by State Hy. Dept., Denver, gravel surfacing 2.594 mi. Federal Aid Project 267A, Las Animas Co., $27,140; 12.92 mi. Federal Aid Project 272B, Pueblo Co., $132,224; 1.439 mi. Federal Aid Project 279A, Arapahoe Co., $47,628. L. D. Blauvelt, state engr.

Wash., Kelso—See "Streets and Roads."

California—August 18, by State Highway Comn., Sacramento, constructing 5.2 mi. highway between Corona Del Mar and Laguna Beach, Orange Co., 150,460 cu.yd. embankment, 164,475 sta.yd. overhaul. R. M. Morton, Forum Bldg., Sacramento, state highway engr.

Calif., Fort Bragg—City Trustees taking bids, improving various streets, 188,204 sq. ft. surface grading, 195,356 sq.ft. 3½ in. and 23,000 sq.ft. 2 in. asphaltic concrete, also 150 tons asphaltic concrete for leveling base under 2 in. pavement, curbs, culverts, etc. C. C. Kennedy, Call Bldg., San Francisco, consult. engr. Noted April 3.

Calif., Fresno—Supervs. Fresno Co., taking bids to pave 4 mi. McCall Ave. from Selma north, with asphaltic concrete. C. P. Jensen, Cory Bldg., co. engr.

Calif., Hawthorne—August 11, by City Trustees, improving portion of Delaware Ave., 2,555 lin. ft. grading 3,552 lin. ft. curbing, 16,887 sq.ft. 4 in. sidewalks, 9,094 sq.ft. 5 in. gutter 94,139 sq.ft. 1½ in. Willite surface on 2½ in. asphaltic concrete, and installing 27 standard electrolier system.

Calif., Inglewood—City Trustees taking bids improving Cedar Ave. between Redonda Blvd. and Kelso St., 172,943 sq.ft. grading, 4,550 lin. ft. concrete curb, 2,556 sq.ft. concrete sidewalks, 109,172 sq.ft. [illegible] in. Natl. pavement, water service connections, etc.

Calif., Los Angeles—August 18, by Bd. Pub. Wks., grading Banning Ave. between Anaheim and "B" Sts., 800,000 cu.yd. fill and constructing concrete pipe sanitary sewers.

Calif., Los Angeles—Aug. 11, by Supervs. Los Angeles Co., improving Hardy St. between Hawthorne and Prairie Aves., 4,289 cu.yd. excav., 11,694 sq.ft. gutter, 3,258 ft. curb, 13,126 sq.ft. sidewalks, 9,116 sq.yd. National pavement top, on asphaltic concrete, Garvey Ave. between New Ave. and Lexington Gallatin Rd., 25,646 cu.yd. excav., 63,327 sq.yd. concrete pavement, 45,677 sq.yd. disintegrated granite subbase, 18,580 lin.ft. shape shoulders, County to furnish 17,222 bbl. cement, 7,714 tons sand, 14,233 tons gravel, etc.

Calif., Los Angeles—Supervs. Los Angeles Co. taking bids improving Central Ave. between Manchester Ave. and north to city limits of Watts, 10,783 cu.yd. excav., 26,491 sq.yd. concrete pavement. To exceed $75,000.

Calif., Los Angeles—Bd. Pub. Wks. taking bids improving 9th St. between Vermont Ave. and Harvard Blvd., 552 sq.ft. 1 in. asphaltic concrete on 3 in. bituminous base, 648 sq.ft. 5 in. concrete paving, 142,768 sq.ft. 1½ in. Warrenite bitulithic on 5 in. base, paint binder, 1,065 ft. sidewalks, etc.

Calif., Lynwood—City Council taking bids, improving San Jose, Capistrano, Barlow Aves., etc., 16,610 lin. ft. curb, 16,750 ft. gutters, 41,930 sq.ft. sidewalks, 174,130 sq.ft. grading, and 164,430 sq.ft. oil macadam pavement. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Santa Ana—City Trustees taking bids improving Santa Clara Ave. between Bush and Lincoln Aves., 201,058 sq.ft. grading and 5 in. concrete paving, 8,745 lin. ft. concrete curbing, 979 lin. ft. trenching, 6 in main line sewer, etc. W. G. Knox, city engr.

Calif., Santa Cruz—City Council taking bids paving Cliff Dr., 317,497 sq.ft. grading, 317,497 sq.ft. 1½ in. asphaltic concrete or Warrenite bituminous surface on 3½ in. asphaltic concrete, 317,497 sq.ft. 2½ in. asphaltic concrete surface on 4 in. waterbound macadam, or 317,497 sq.ft. 5 in. concrete, etc. H. S. Williams, city engr.

Calif., South Pasadena—Aug. 11, by City Trustees, improving Milan and Lemon Sts., 176,500 sq.ft. macadam, 18,600 sq.ft. concrete gutters, 3,122 ft. 4 and 6 in. c.i. water pipe, 540 ft. water services, 450 ft. 6 in. sewer laterals, 400 sq.ft. concrete sidewalks.

BIDS RECEIVED

Massachusetts—Dept. Pub. Wks., Div. Highways, State House, Boston, bituminous macadam paving 22,540 ft. highway 18 ft. in Amherst, and Belchertown from Lane Constr. Corp. Old Colony St., Meriden, Conn. $165,266. Noted July 17.

N. Y., Brooklyn—E. Riegelmann, boro. pres., July 30, from W. E. Carberry, 45 South Elliott Pl., grading, curbing and flagging East 8th St. $4,058; from Uvalde Asphalt Paving Co., 1 Bway., New York, asphalt paving East 8th St. $10,120, curbing and asphalt paving roadway Ave. R, etc., $17,855, asphalt repaving roadway 10th Ave. $9,082; from Cranford Co., 52 9th St., asphalt paving roadway Ovington Ave. $1,954, asphalt repaving roadway 73rd St. $8,311. Noted July 24.

Pa., Phila.—See "Unclassified."

Pennsylvania—State Dept. Hys., Harrisburg. **(R. means Route and A. Application)** rein.-con. surfacing R. 204, Beaver Co., from L. H. Young Constr. Co. and Russell Bros., 1220 Pennsylvania Ave., East Liverpool, O., $41,125; A. 1616, Somerset Co., from Vipond, Strite & Moore, 604 Penn St., Hollidaysburg, $52,294; R. 232, Luzerne-Wyoming Counties, from J. M. Boyd, 83 Sharp St., Kingston, $279,741; A. 944, Elk Co., from L. F. Edwards, 528 Oakland Ave., Greensburg, $37,219; R. 101, A. 2595, Potter Co., from G. Metzger, Jr., Emporium $22,713; R. 335, A. 1036, Lycoming Co., from G. I. Thompson Co., Clearfield, $119,129; A. 2497, Lehigh Co., from Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md., $121,905; A. 2935, Beaver Co., from W. S. Morrison, New Brighton, $58,824; R. 63, Indiana Co., from Johnson, Drake & Piper, Inc., Erie, $333,269; A. 1951, Beaver Co., from Garvey Weyenburg Constr. Co., 807 College Ave., Appleton, Wis., $131,683; A. 2004 Venango Co. from W. W. Wilt, 710 13th St., Franklin $67,264; R. 183, A. 2118, Columbia Co., from J. Christianno, 301 South Shamokin St., Shamokin, $125,642; A. 2276, Venango Co., from Colonial Constr. Co., 801 Arrott Bldg., Pittsburgh, $196,163; R. 304, A. 3140, A. 2832, R. 86, and A. 2881, all Erie Co., from C. H. Fry Constr. Co., 19th and Cherry Sts., Erie, $196,789, $146,627, $204,750 and $99,599 respectively. Noted July 10.

Ill., Galesburg — From Graham-King Constr. Co., Galesburg, improving 4 blocks East 3rd St., 4,218 sq.yd. brick on concrete, 3,060 lin.ft. combined curb and gutter, 3,800 cu.yd. earth excav., $17,753, engrs. est. $18,249, North Prairie St., 2,742 sq.yd. vitr. brick on concrete, 2,960 lin.ft. combined curb and gutter, 1,740 cu.yd. earth excav., $11,132, engrs. est. $11,282. Noted May 29 and July 24.

N. D., Mandan—Morton Co. paving 28,102 sq.yd. Mandan-Bismarck inter City highway from Northern Constr. Co., 9 North 8th St., Grand Forks, $82,619.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, improving Watson Rd., from Blackburn & Crean, Chouteau Trust Co. Bldg., $27,727. Noted June 26.

Tex., Lufkin — Angelina Co., grading, gravel surfacing and bridging 15.64 mi. State Highway 63, Federal Aid Project 277-C, 12 ft., from J. S. Moore & Sons, Lufkin, $188,457. Engrs. est. $130,997. Noted June 26.

CONTRACTS AWARDED

Massachusetts — Dept Pub. Wks., Div. Highways, State House, Boston, rein.-con. paving highway in Auburn, to C. A. Haggerty, 18 Negus St., Webster, $91,595; and highway in Wilbraham, to W. C. Tannett, Easthampton, $25,313; bituminous macadam paving 3,200 ft. highway in Stockbridge, to L. J. Kelleher, Montague City, $23,694. Noted July 31.

Mass., Boston—Dept. Pub. Wks., City Hall recut granite block paving Blue Hill Ave., to J. McCourt, 46 Wait St., Roxbury, $50,783. Noted July 31.

N. Y., Lockport — To C. B. Whitmore Co., Lockport, paving 9,000 yd. brick 3 in. asphalt filler, on 6 in. concrete, $4.39.

N. J., Camden—Paving Park Ave. in Pensauken Twp., to Fish-Rutherford, Inc., Real Estate Trust Bldg., Phila., $70,740. Noted June 26.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. surfacing 4.877 sq.yd. Route 55, Blair Co., to Davis & Young, Hollidaysburg, $3 per sq.yd., total $22,146; 26,980 sq.yd. Application 1430, Chester Co., to Dalton Bros., Paoli, $2.81, etc., total $102,341; Application 143, Sect. 2, Westmoreland Co., to Frazier & Mansfield, McKeesport, $193,748; 54,590 sq.yd. Applications 2631, 2632, 2633, 2634, Lackawanna Co., to H. B. Sproul Constr. Co., Scranton, $3.30, etc., total $271,723.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. surfacing 15,243 sq.yd. Route 108, Sect. 2, Washington Co., to T. Antigo, Charleroi, $3.75 per sq.yd., etc., total $88,292; 64,700 sq.yd. Route 140, Sect. 1, Schuylkill Co., to Union Paving Co., 30th and Locust Sts., Phila., $3.26, etc., total $277,711; 11,203 sq.yd. Route 139, Dauphin Co., to Pyramid Constr. Co., Hershey Bldg., Harrisburg, $3 to $3.50, etc., total $51,568. Noted July 10.

Pa., Brownstown—Improving Hall, George, North and Katherine Sts., 7,000 yds. 3 in. brick on 5 in. concrete, to McGraw Bros., Johnstown, $51,039. Noted July 17.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., to T. E. Flanagan, 531 East Girard St., grading Fairhill, Wingohocking and Wyoming Sts. $2,253, to F. Mark Contg. Co., 2829 North 21st St., Park, 12th and 13th Sts. $8,722, to R. B. Wenner, 3106 Midvale St., Sheldon St., $3,774; to Barber Asphalt Co., 239 North 30th St., asphalt paving Bass and Crowson Sts. $7,538, Broad St. $3,555, Ritner St. $7,952; to Eastern Paving Co., 401 Colonial Trust Bldg., Collins St. $14,[illegible], Hunting Park and Worrell Sts. $16,751, Rorer St. $6,523; to J. F. Nolen & Sons, 64 Church Lane vitr. block paving Zeralda St. $5,[illegible]; to Union Paving Co., 30th and Locust Sts. improving Spring Garden St. from Delaware Ave. to 6th St. $164,805. Noted July 24.

Md., Baltimore—Improving roadways in Contr. 211, 5,060 sq.yd. concrete, 135 sq.yd. cement sidewalks, 1,000 cu.yd. excav., to G. Long Constr. Co., 1st Ave. and 12th St., $7,892; grading and concrete paving alleys in Contr. 110, to Arundel Constr. Co., Knickerbocker Bldg., $25,733. Noted July 17.

Fla., Port Tampa City—Paving various streets to J. G. Yeates Co., Tampa, $84,996.

Fla., Safety Harbor—Improving 112,000 sq.ft. cement sidewalks, and 30,000 lin.ft. cement curb, to Emerson, Constr. Co., Safety Harbor, grading, $0.75 cu.yd., sidewalks $0.18 sq.ft., curb, $1.18 lin.ft.

Alabama—State Hy. Comn., Montgomery, reconstructing and gravel surfacing 29 mi. Roy Bridge-Marbury Rd., 20 ft., Autauga Co., to J. W. Gwin, Hamilton Station, Birmingham, $55,708, engrs. est. $60,000.

Streets and Roads (Continued)

W. Va., Alderson — Paving various streets, to Echols Constr. Co., Charleston, 10,341 sq.yd. bituminous concrete, at $2.50 per sq.yd., 6,138 lin.ft. concrete curb and gutter at $1.10 per lin.ft. Noted July 3.

Miss., Laurel—Paving streets, sidewalks, etc., incl. sewers, to E. A. Finch Constr. Co., Hattiesburg, $105,554. Noted July 3.

La., Baton Rouge—Greater Agricultural College, laying sidewalks through University Grounds to Thibodaux Bros., Baton Rouge, $34,200.

La., Laurel—To E. A. Finch Constr. Co., Hattiesburg, Miss., 22,000 sq.yd. 3 in. brick on 4 in. concrete $3.05, 10,000 lin.ft curb and gutter $0.95, 8,000 cu.yd. grading, $0.50, 2,500 ft. 6x12 curb $0.60, gravel $1,25, 3,535 lin.ft. 8 in. sewers $2.15.

La., Shreveport, Caddo Parish—Grading and concrete paving 1 mi. Cedar Grove Rd. to E. J. Deas & Co., Shreveport, $29,-442. Noted July 10.

La., South Highlands—Grading and paving 37,000 sq.yd. Fairfield Heights, Huron St. and Fairfield Ave., to Flenniken Constr. Co., Shreveport, $150,000. Noted June 5.

Tenn., Jackson—Paving various streets to Southern Paving Co., Chattanooga, 53,-950 sq.yd. sheet asphalt on 5 in. concrete, $144,414, and 29,400 sq.yd. 3 in. brick on 5 in. concrete, $180,200; to Carey-Reed, 634 West 2nd St., Lexington, Ky., 33,675 sq.yd. 6 in. concrete, $88,965. Noted June 26.

Ky., Louisville — Bd. Pub. Wks., City Hall, paving various streets, to Louisville Asphalt Co., Floyd and Lee Sts., $83,355.

Ky., Owensboro — Paving Triplett Ave., Frederica, 2nd, 3rd and 9th Sts., 29,350 sq.yd. 2 in. sheet asphalt, to Andrews Paving Co., 717 Rentchler Bldg., Hamilton, O. $58,700.

Ind., Monticello—Hard surfacing 15,360 sq.yd. Bluff St., concrete to A. F. Cohen, Suite 201, People's Life Bldg., Frankfort, $42,240.

Ind., Terre Haute—Vigo Co., concrete paving 36,960 sq.yd. Barney B. May Rd. to J. F. Kelly & Co., Terre Haute, $71,876. Noted July 17.

Michigan — State Hy. Dept. at office Comrs. Arenac Co., Standish, grading and gravel surfacing 9.43 mi. State Trunk Line Rd. 70-1, A, 89,611 sq.yd. gravel, to E. Shapton, Charlevoix, $87,775. Noted July 3.

Michigan — State Hy. Dept. Lansing, grading and surfacing 0.593 mi. State Trunk Line Rd. 16-27 A, Clinton Co., 6,959 sq.yd. concrete, to G. P. Schail, Muskegon.

Michigan — State Hy. Dept., Lansing, grading and surfacing 2.57 mi. State Trunk Line Rd. 10-21, D 1 and 2, Iosco Co., 27,795 sq.yd. concrete, to J. A. Campbell, Bay City, $46,417.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and surfacing 1.02 mi. State Trunk Line Rd. 92-3, 13,229 sq.yd. concrete, to Hudson & Cooms, East Lansing, $41,083. Noted July 10.

Michigan — State Hy. Dept., at office Comrs. Antrim Co., Belleaire, grading and surfacing 0.99 mi. State Trunk Line Rd. 13-33, A, 11,610 sq.yd. concrete, to Marsman & Tabor, Grand Rapids, $31,538. Noted July 3.

Michigan—State Hy. Dept. at office Comrs. Gogebic Co., Bessemer, grading and surfacing 7.023 mi. State Trunk Line Rd. 12-28, 37,653 cu.yd. excav., 66,289 sq.yd. gravel, to Hill & Manley, Wakefield, $112,-281. Noted July 3.

Michigan—State Hy. Dept., grading and paving 2.966 mi. State Trunk Line Rd. 12-3, 8,552 cu.yd. earth excav., 34,677 sq.yd. concrete, to Remus Constr. Co., Remus, $63,654. Noted July 3.

Michigan — State Highway Dept., Lansing, concrete paving 15,662 sq.yd. State Trunk Line Rd. 11-9A and 99-1, to A. E. Green, South Haven, $30,083.

Michigan — State Hy. Dept., Lansing, grading 5.813 mi. Federal Aid Rd. 82-A2, 10,107 lbs. steel and 50,138 cu.yd. earth excav., to Closser Bros., Detroit. $40,668.

Mich., Springwells — Grading and concrete paving about 10,000 sq.yd. Salina Ave., Special Assessment Dist. 29, to W. Knapp & Co., Monroe, $43,812.

Ill., Galesburg—Grading, paving, etc., 7 blocks East North St., 8,596 sq.yd. vitr. brick on concrete, 5,980 lin.ft. concrete curb and gutter, 4,830 cu.yd. excav., to H. H. Gunther, 600 East Main St., $34,329. Noted Aug. 7.

Ill., Wheaton — Dupage Co., improving Bloomington Rd., to A. L. Porter, Brookfield, $54,762; St. Charles Rd., to Jaicke Bros., Chicago, $66,834; York and Lumbard Rds., to Beckman & Deicke, Lumbard, $45,650 and $21,476 respectively; Downers Grove and West Mont Rds., to E. Otto, Downers Grove, $51,869 and $15,933 respectively.

Wis., Milwaukee—Bd. Pub. Wks., paving 6,363 sq.yd. Clybourn St., vibrolithic concrete, to Czerwinski Constr. Co., 378 16th Ave., $18,831, concrete paving 2 alleys, to J. Bluhm & Son, 1298 Achilles Pl., $2,991, 2 alleys, to Schwerm Bros., 50 Lee St., $6,981, 4 alleys, to W. T. Vanderboom, 97 32nd St., $17,717, 1 alley to Ryback & Sadowski, 1092 2nd Ave., $5,743, 1 alley, to F. Blodgett 521 Newton Ave., $1,695; concrete sidewalks on 3,794 sq.ft. Holten St., to A. Retzlaff, 868 Island Ave., $939. Noted July 24.

Wis., Racine — Bd. Pub. Wks., paving 27,382 sq.yd. rein.-con. on Walnut, Cherry, Elm, Harrison and Garfield Sts., Herrick and Park View Aves., etc., to Western Impvt. Co., 840 9th St. at $2.68 per sq.yd., also 9,206 lin.ft. concrete curb and gutter $0.85 per ft.; 1,100 sq.yd. asphalt macadam on Kewaunee St., to J. Cape & Son, 468 Water St. $2.60 per sq.yd., 600 lin.ft. concrete curb $0.50 per ft.

Wis., Wauwatosa — Bd. Pub. Wks., to Jacobus & Winding Constr. Co., 1 State St., rein.-con. paving and grading Windsor Ave., 10,261 sq.yd. paving at $2.45 per sq.yd., 8,900 cu.yd. grading $0.50, Church St., 3,525 sq.yd. paving $2,45, 4,200 cu.yd. grading $0.70, 4th Ave. 1,845 sq.yd. paving $2.45, 3,000 cu.yd. grading $0.75.

Ia., Algona — Kossuth Co., to R. R. Knight, West Chester, grading Projects S-12 and S-15, 109,452 cu.yd. excav. at $0.24 per cu.yd., placing culverts $0.25 each, removing stumps and trees $3.00 each.

Ia., Atlantic—Cass Co., to G. W. Condon, 510 Farnum Bldg., Omaha, Nebr., grading 7.749 mi. road, 270,780 cu.yd excav., at $0.149 per cu.yd., 100 cu.yd. excav. $0.35, also 18 culverts and 1 I-Beam bridge, $28,292; to Wickham Bridge & Pipe Co., 27 South 19th St., 2 box and 2 circular culverts, $4,890.

Ia., Council Bluffs — Paving various streets, 106,000 sq.yd. asphaltic concrete, etc., to Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City and J. J. Wickham, Council Bluffs, $106,000.

Ia., Emmitsburg—Palo Alto Co. graveling Projects 340 and 386 and Fallow Rd., to Brereton & Bauck, Emmitsburg, $22,400, tile work, to A. Elkwald, Emmitsburg, $2,500, 5,100 cu.yd. channel exchange to C. C. Barnes, Des Moines, $1,240.

Ia., Dennison—Crawford Co., to E. Seabury, Omaha, Neb., grading portion of primary road system, 129,911 cu.yd. excav. at $0.21 per cu.yd., and 500 cu.yd. excav. $0.50.

Ia., Storm Lake—Buena Vista Co., to J. Clinton, Storm Lake, 5,826 cu.yd. excav. at $0.225 per cu.yd., to Longerbone Bros., Des Moines, 96,643 cu.yd. excav. at $0.2399 per cu.yd.; to Neilson & Neilson, Moline, Ill., 29,764 ft. 6 in. tile drain at $0.107 per ft., 3,700 ft. 8 in. $0.1706, 1,500 ft. 10 in. $0.2445, 3,400 ft 12 in. $0.434, 4 intakes $18.00 each, and 35 intakes $17.50 each; to O. Carlson, Laurens, 38,070 ft. 6 in. tile drain $0.107, and 23 type B intakes $15.00 each.

Minn., Anoka—Anoka Co., grading, etc. 6.56 mi. Job 2407, State Rd. 3, 55,766 cu. yd. excav., to W. N. Petri, Champlin, $28,-119. Noted June 26.

Minn., Carlton—Carlton Co., grading 50,358 cu.yd. Job 2406, Sects. A. B and C, Carlton Co. to O. E. Foley, 208 Court Blk., St. Paul, about $15,000; Bridge 4277, 30 ft. long, bridge 4278, 24 ft. arch, and bridge 4279, 50 ft. long, all concrete, to Chernus Constr. Co., 524 McKnight Bldg., Minneapolis, $23,649.

Minn., Faribault—Rice Co., graveling Job 2407, State Rd. 21-25 Lyndale Ave. extensions through Scott and Rice Counties, 7,100 cu.yd. stripping pits, 30,380 cu.yd. screen and load, 98,284 cu.yd. ½ mi. haul, to Klemmer & Austin, Owatonna, $24,849; Job 2405, State Rd. 27, 2,000 cu.yd. stripping pit, 6,300 cu.yd. screen and load, 600 cu.yd. ½ mi. haul, etc., to A. E. Kimmett, Faribault, $3,726. Noted June 5.

Minn., Kenyon—H. J. Held, village clk., improving various streets, 11,000 sq.yds. crushed rock concrete, 2,560 lin.ft. concrete curb, storm sewers, to Welsh Paving Corp., 703 1st Natl. Soo Line Bldg., Minneapolis. $30,339. Noted July 10.

Minn., St. Paul—To Fielding & Shepley, 216 University Ave., brick paving 10 blocks Hamlin Ave. between Randolph St. and Osceola Ave., $33,345, 4 blocks Pillsbury Rd. between Myrtle Ave. and Territorial Rd., and Territorial Rd. between Pillsbury Ave. and Vandalia St., $24,983.

Minn., St. Paul—To C. F. Scully Equipment Co., 212 Dakota Bldg., St. Paul, concrete paving Cleveland Ave. between Scudder St. and northern city limits, $30,200, Larpenteur Ave. between Dale St. and Hamline Ave. $40,380, Dale St. between Wheelock Parkway and Larpenteur Ave. $27,800; to Thornton Bros. 318 Endicott Bldg., vertical fibre brick paving, Marshall Ave. between Pascal Ave. and Grotto St. $107,587, creosoted wood block paving, Raymond Ave. between Hampden and West Como Aves., $56,987, Concrete paving 25,173 sq.yd. Minnehaha St. between Lexington and Fairview Aves., $51,937, 3,313 sq.yd. Minnehaha St. between Fairview and Prior Aves., $8,787.

Kan., Newton—Grading and paving 12,-908 sq.yd. with 3 in. vertical fibre brick on concrete, curb, gutter, etc., to Imperial Constr. Co., Topeka. Noted Feb. 28.

Kan., Hiawatha—Brown Co. improving 5.663 mi. Federal Aid Project 223, Sects. A, B, C and D, grading, to A. F. Roberts, Sabetha, $33,532, culverts on Sect. B, to Smith & Kess Morrill, $11,378, culverts on ects. A C and D, to Interstate Concrete Co., Humboldt, $7,981, Bridge on Sect. B, to Engleman Bros., Baker, $4,337. Noted July 10.

Neb., Grand Island—Paving 30,609 yd. Paving Dists. 60 and 61 with sheet asphalt, to Traill Paving Co., Grand Island, at $2.49 per yd., total $76,216.41. Engrs. est. $75,000.

Neb., Lincoln—Paving about 15 blocks of P. D. 592, to Abel Constr. Co., 318 Terminal Bldg., $24,514 and 506, to Cochrane Constr. Co., 822 First Natl. Bank Bldg., $19,581.

Neb., Wisner—Brick paving 12 blocks in Dist. No. 1, to A. A. Dobson Co., 809 First Natl. Bank Bldg., Lincoln, $82,544. Engrs. est. $90,000. Noted July 17.

N. D., Grand Forks—M. O. Haugen, aud. Grand Forks Co., improving 16 mi. Federal Aid Project 215, 101,825 cu.yd. earth and 2,045 cu.yd. rock excav., 12,952 cu.yd. overhaul, pipe culverts, to W. H. Noel, Jamestown, $23,507 and F. Beard Jr., Reynolds, $8,959, 286.12 cu.yd. class A concrete, to J. A. Jardine, Fargo, $6,232. Noted July 17.

Mo., St. Louis — Improving concrete alleys, 7, to Eyermann Constr. Co., 1216 South Grand St., $15,282; 3 to J. E. Perkinson, 3237 Carter St., $12,211; 3, to Skrainka Constr. Co., Security Bldg. $9,589.

Mo., Webster Groves—Improving Providence Ave., grading 2,740 sq.yd. rein.-con. paving, 2,200 lin.ft. concrete curbing, to Carlon Constr. Co., Maplewood.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., paving asphalt on concrete, 4,210 sq.yd. Cora Ave., $16,164, 7,680 sq.yd. Dodier St. $33,318, 27,290 sq.yd. Madison St. $61,211, 2,100 sq.yd. Nashville St. $8165; 3,800 sq.yd. Forest Park Blvd. $47,759; sewer for Union Market, to Martin & Reilly, $3,917. Noted July 10.

Mo., University City—Grading and paving Teasdale Ave. with penetration asphalt on macadam, concrete curb and gutter, and 1 concrete alley to Stolla Constr. Co., 5243 Delmar St., St. Louis, $14,190, and $2,423 respectively; one concrete alley, to C. M. Barry, Clayton, $7,452; four concrete alleys, to Skrainka Constr. Co., Security Bldg., St. Louis, $14,847.

Tex., Brady—Improving Square, 16,000 sq.yd. 6 in. concrete paving, 1200 ft. curbing and guttering, 1,100 ft. guttering, 500 ft. 12 in. storm sewer, removal 5,000 sq.yd. macadam, to Janes Constr. Co., Southwestern Life Bldg., Dallas, $55,000. Noted July 17.

Tex., Rock Springs—A. P. Allison, judge Edwards Co., grading, bridging and surfacing 9.77 mi. State Highway 41, 16 ft., to Rirle & Montgomery, Alamo Natl. Bank Bldg., San Antonio, $111,404. Noted June 26.

Okla., Chandler—Paving curbs and gutters 10 blocks Manuel, 10th and Lincoln Sts., 17,000 sq.yd. chats, 5,800 lin.ft. curb, 6,600 cu.yd. excav., to H. G. Oleson, Chandler, $28,806, engrs. est. $30,000.

Okla., Ponca City — Paving streets in Impvt. Dist. 44, 5,600 sq.yd. 2.5 in. brick on 4 in. concrete base, 7,000 sq.yd. trim grade, 1,000 sq.ft. sidewalk, 3,600 lin.ft. curb and gutter, 200 linft. valley gutter, 260 lin.ft. concrete headers, 3,000 lb. lead pipe, etc., to R. H. Baldwin, Ponca City. $29,241. Noted July 10.

Okla, Sand Springs—Grading and paving Dist. 6, to J. S. Greer, and Lawrence & McSpadden, Sand Springs, $101,973. Noted July 31.

Nevada—State Hy. Dept., Carson City, grading and gravel surfacing Mill City-North Co. Line Rd., Pershing Co., to T. N. Tedford, Fallon, $69,909, Moor-Pequop

Streets and Roads (Continued)

Summit Rd., Elko Co., to Tieslau Bros., 2819 Grove St., Berkeley, Calif.; concrete paving 2.4 mi. road in Humbolt Co., to F. M. Mastreetti, 1390 East 32nd St., Oakland, Calif., $29,544.

Wash., Auburn—Impvt. Dists. 74, 75 and 76, grading, paving and curbing, 17,000 sq. yd. 7 in. concrete, to J. Erickson, 6227 22nd St. N. E., Seattle, $42,575. Noted June 26.

Wash., Longview—Paving, curbing, etc., 30 blocks, district No. 2, 29,165 sq.yd. 6 in. concrete, and 10,470 sq.yd., 5 in. bituminous, 18,000 ft. curbing and gutter to Olympic Construction Co., 1326 Northlake Ave., Seattle, $105,000.

Wash., Seattle—Grading and curbing, 15th Ave. S. et al., to Creelman & Parks, 1079 25th St. N., Seattle, $47,598, engrs. est. $46,992, Cloverdale St. et al., to F. N. Badolato, Box 561, $26,505, engrs. est. $26,930. Noted June 17.

Wash., Seattle—King Co., paving 1 mi., Peck Road, to Goetz & Brennan, Seaboard Bldg., $32,190. Noted June 26.

Wash., Vancouver—Commrs. Clarke Co., grading and surfacing with crushed rock, 5.12 mi. Heison-Fargher Lake Highway, to O. D. Wolfe, Washougal, $67,226.

Ore., Portland—Improving 3,680 ft. East 36th St., 1,235 ft. East Morrison St. and 460 ft. East Morrison St., to Municipal Paving Plant, Portland, $35,554, $16,354 and $15,354 respectively, engrs. ests. $44,755, $16,241 and $16,241 respectively; 3,440 ft. Rex Ave., to A. D. Kern, Exchange Bldg., $25,683, engrs. est. $34,813.

Calif., Compton—Improving Maple and Aranble Sts., to G. H. Oswald, 366 East 58th St., Los Angeles, 86,530 sq.ft. grading at $0.03.5 per sq.ft. 86,530 sq.ft. 5 in. concrete pavement $0.195, 1,176 ft. 6 in. sewer $1.10, 2,469 ft. 4 in. c.i. water pipe $1.50, 3,100 ft. 2 in. galvanized pipe $1.40 and 1,358 ft. ¾ in. galvanized pipe $1.30, 105 ft. curb $0.60.

Calif., Hillsborough — City Trustees, improving various streets, 66,500 sq.ft. 5 in. concrete, 44,500 sq.ft. 1½ in. Topeka surface on macadam, etc., to A. J. Raisch, 46 Kearny St., San Francisco, $23,452. Noted June 10.

Calif., Inglewood—City Trustees, improving Osage Ave., 184,322 sq.ft. grading, 4,901 ft. curbing, 24,532 sq.ft. sidewalks, 95,652 sq.ft. 5 in. macadam paving, 160 sq.ft. class "B" oiling, to M. B. Jones, Baldwin Park, $25,130.

Calif., La Jolla — La Jolla Properties, Inc., 4 in. concrete paving approximately 500,000 sq.ft. streets in Hermosa Subdivision No. 1, to D. H. Ryan, 1615 Fern St., San Diego, at $0.168 per sq.ft.

Calif., Los Angeles—Los Angeles Co. concrete paving 86,392 sq.yd. Washington Blvd. to Wells & Bressler, Calif. Bank Bldg., Santa Ana, $252,456.

Calif., Santa Cruz—Santa Cruz Co. paving 3.5 mi. Coast Rd., 289,000 sq.ft. 3½ in. rock and oil, to Granite Constr. Co., Watsonville, $29,891. Noted June 19.

Calif., Southgate—City Trustees, improving Santa Ana St. from Elizabeth to San Gabriel Sts., 100 sq.ft. sidewalks, 168,455 sq.ft. grading, 12,591 sq.ft. 5 in. and 1,312 sq.ft. 8 in. concrete gutter, 116,615 sq.ft. 1½ Willite surface on 3½ in. bituminous base, etc.; west half Santa Ana St., 100 sq.yd. sidewalks, 16,965 sq.ft. grading, 110 lin.ft. curb, 10,757 sq.ft. 5 in. and 1,965 sq.ft. 8 in. concrete gutter, 166,965 sq.ft. 1½ in. Willite surface on 3½ in. bituminous base, to Hall-Johnson Co., 1611 East 6th St., Los Angeles, $46,737. Noted July 24.

Ontario—Northern Development Branch of Provincial Highways, Parliament Bldg., Toronto, concrete paving 50,000 sq.yd. road from Coniston to Sudbury 9 or 16 ft. wide, to MacNamara Constr. Co., Sault Ste. Marie, 9 ft., $109,365 and 16 ft., $188,751. Noted July 17.

Ontario — Provincial Highways Dept., Ottawa, 5½ mi. concrete on Ingersoll-Thamesford Highway, to Johnston Bros., Brantford, $150,000.

Ont., Cornwall — Asphalt paving 12,890 sq.yd. various streets, concrete curbs and gutters, etc. to Standard Paving Co. Ltd., Central Chambers, Ottawa, $51,416.

Ont., North Bay — Improving 1st and Block Aves., Cassells and Fisher Sts., 35,000 sq.yd. bitulithic on concrete, 11,000 lin.ft. concrete curbs and gutters, storm sewers, etc., to Warren Bituminous Paving Co., 54 University Ave., Toronto, $180,000. Noted July 24.

Ont., Ottawa — Asphalt pavements and concrete curbs, etc., on grounds of new Civic Hospital, Carling Ave., to Grant Bros., Rideau St., $58,383.

Ont., Saulte Ste. Marie—Concrete paving 15,000 sq.yd. various streets, 18 and 24 ft. to G. McNamara Constr. Co., 8 McGregor Ave., $45,000.

Ont., Timmins—Asphalt paving etc., 9,000 sq.yd. various streets, to Warren Bituminous Paving Co., 54 University Ave., Toronto, $4.20 per sq.yd., etc., total $42,400. Noted July 17.

Buildings—Industrial

PROPOSED WORK

Mass., Allston (Boston P. O.)—Plant—International Harvester Co. of America, 43 Somerville Ave., Somerville, plans 1 story, repair and service plant, 63-71 North Beacon St., Allson, $50,000. Engineer and architect not selected.

Mass., Boston—Boiler House and Garage—Eastern Steam Laundry, 941 Massachusetts Ave., having plans prepared by Lockwood & Greene, 24 Federal St., boiler house and garage here. To exceed $40,000.

Mass., Charleston — Factory — Wright Ziegler Co., 12 South Market St., Boston, having plans prepared by Monks & Johnson, 99 Chauncy St., Boston, alterations and additions to factory Spice St.

Mass. Norwood — Storehouse — Bird & Sons, East Walpole, plans 1 story, 120 x 160 ft., addition, $40,000. Monks & Johnson, 99 Chauncy St., Boston, archts.

Conn., Hampden—Plant—United Smelting & Aluminum Co., plans to rebuild plant recently destroyed by fire. $100,000. Engineer and architect not selected.

N. Y., Alden—Factory—A. Y. Bennett plans to rebuild brick, tile and concrete factory recently destroyed by fire. Loss $125,000.

Md., Baltimore—Factory—Jos. Nechankin, c/o Star Motor Co., 816 East Fayette St., preparing plans, 2 story, 30x156 ft., brick, steel, plain foundation, Guilford Ave. near Preston St., $50,000. S. Russell, 11 East Lexington St., Archt.

La., Cheneyville — Plant — See "Waterworks."

Miss., Vicksburg—Ice Plant—J. M. Dutton, Vicksburg, J. L. Blackman and M. G. McGary, Jackson, plan brick and timber ice plant, here. $40,000.

La., Hammond—Warehouse—Gulf Refining Co., plans to rebuild warehouse recently destroyed by fire. $40,000. Engineer and architects not selected.

Tenn., Nashville — Plant — Hermitage Portland Cement Co., R. T. Miller, genl. mgr., 174 3rd Ave., plans addition to plant. $300,000.

Tenn., Nashville—Plant—Nashville Pottery Co. plans plant, Cleveland Ave. $40,000.

O., Cleveland — Factory — White Motor Co., W. White, Pres., 842 East 79 St., plans completed, 2 story and basement, 70x280 ft., brick, steel, and concrete, East 79 St., $200,000. Watson Co., 4614 Prospect Ave., archt.

O., Kent—Factory—Fageol Motors Co., of California, plans 50x200 ft., brick and steel, $150,000. Architect not announced.

Ind., Indianapolis — Dye House — Real Silk Hosiery Mills, 624 North Noble St., having plans prepared by Lockwood, Greene & Co., 24 Federal St., Boston, dye house at plant here. To exceed $50,000.

Ia., Marshalltown—Factory—C. A. Dunham Co. postponed action on bids until fall, 2 story, 50 x 129 ft., rein.-con., brick and steel. $80,000. H. E. Reimer, Kibby Bldg., Marshalltown, archt.

Tex., Burkburnett—Plant—Amer. Refining Co. plans one unit casing head gasoline plant. $50,000.

Tex., Houston—Factory—Presto-Lite Co., 30 East 42nd St., New York City, plans 10 concrete and steel buildings Hughes St. and Houston Belt & Terminal R.R. $500,000.

Tex., Woodville—Mill—Guarantee State Bank plans addition to saw mill. $45,000.

Okla., Sand Springs—Mill—Sand Springs Cotton Mills Co. plans concrete addition, also new humidifying and sprinkler systems. $75,000.

Okla., Shawnee — Shops — Chicago, Rock Island & Pacific R.R. Co., 179 West Jackson Blvd., Chicago, Ill., plans to rebuild shops recently destroyed by fire. $60,000. C. A. Morse, ch. engr.

Okla., Tonkawa—Plant—Ford Motor Co., having plans prepared by Ellis Charles & Co., Orpheum Bldg., Wichita, Kan., 1 story, 100x129 ft., brick and steel. $40,000. D. Ryan local mgr.

Ariz., Flagstaff — Laundry — Flagstaff Steam Laundry had plans prepared by A. G. Bailey, 410 Hill Street Bldg., Los Angeles, Calif., 1 story, 75 x 200 ft., brick. Work will probably be done by day labor.

Calif., Burbank—Factory—Soda & Potash Co., C. W. Berry, (interested), Los State Bldg., Los Angeles, having plans prepared 1 story, 100 x 150 ft., steel and corrugated iron, Sonora St. To exceed $80,000. Kennard Eng. Co., Hollingsworth Bldg., Los Angeles, engrs.

Calif., Madera — Power Plant See "Excavation, Drainage, Irrigation."

Calif., Modesto—Factory—Borden Condensed Milk Products Co., Kansas Ave., having plans prepared by Davis-Heller-Pearce Co., Delta Bldg., Stockton, 1 story, 50 x 180 ft. tin can factory, rein.-con. and brick. $100,000.

Calif., Orange—Factory—California Wire Co., 204 North Cypress Ave., plans plant for manufacture of insulated electric wire and cable, in northern section of state. To exceed $100,000.

Calif., Red Bluff—Power Plant, etc.—E. B. Perrin, c/o H. A. Kleugel, engr., Balfour Bldg., San Francisco, having preliminary plans prepared power plant on Thoms Creek to develop 27,000 hp., invol. 10 mi. conduit system, also constructing Bear Rock Dam.

Calif., Santa Ana—Power Plant—Plans election to vote on $75,000 bonds for electrical power plant.

Calif., Santa Barbara—Plant—City plans election to vote $100,000 bonds for hydro-electric plant. G. D. Morrison, city engr.

Ont., Milton—Factory—Milton Worsted Yard & Spinning Mills, plans 2 story, 40x80 ft. brick factory addition.

Ont., Nottawa Mill—Nottawa Flour Mills, J. Moir, prop., plans to rebuild mills recently destroyed by fire. $50,000.

Ont., Toronto—Plant—Tip Top Tailors and Berger Tailoring Co. Ltd., 252 Richmond St. W., having plans prepared by Kaplan & Sprachman, 289 Dundas St., 6 story and basement, 60 x 100 ft., brick plain foundation. Richmond St. W., $200,000.

Ont., Wolverton—Wolverton Milling Co. plans rebuilding mills recently destroyed by fire. Loss $100,000.

B. C., False Creek—Mill—J. Hanbury & Co., plans saw mill and dry Kiln. $300,000.

BIDS DESIRED

Mass., Somerville (Boston P. O.)—Plant—Lombard & Co., 236 A St., South Boston, taking bids 1 and 2 story, 50 x 150 ft. plant, Middlesex Ave., here, $40,000. Clifford & Roeblad, 101 Tremont St., Boston, engr.

Mass., South Boston (Boston P. O.)—Plant—Gillett Safety Razor Co., 41 West First St., taking bids 2 story, 70 x 75 ft., brick and stone, to exceed $40,000. C. T. Main, 200 Devonshire St., engr.

Pa., Johnstown—Plant—Bethlehem Steel Co., will build concrete and steel power plant, $200,000. Work will be done by separate contracts. A. T. Kellar, c/o owner, engr.

Ind., Indianapolis—Factory—Indianapolis Candy Co., 225 East Maryland St., taking bids 4 story and basement, 85 x 100 ft. rein.-con., brick and stone, Union St. $100,000. R. N. Edwards, Union Trust Bldg., archt. Noted July 17.

Wis., Milwaukee—Factory—Babcock Concrete Block Co., 1489 Holton St., taking bids 1 story, 30 x 62 ft., concrete, Holton St. $40,000. E. Schroeder Co., 405 Bway., engr.

Ia., Ottumwa—Factory—Morell & Co., Ottumwa, taking bids 7 story and basement, 68 x 80 ft., rein.-con. factory, plain foundation. Henschien & McLaren, 1637 Prairie Ave., Chicago, Ill., archts.

Ia., Greenfield—Plant—Aug. 11, by H. G. Spooner, city clk., electric light and power plant, also 300 hp. Diesel oil engine, 250 kva. direct connecting generator and exciter, switchboard equipment, 15,000 gal. oil tanks, 3,000 gal. tank on tower, 300 gal. per hour water softener. W. E. Schwob, Iowa City, consult. engr. Noted Mar. 20

CONTRACTS AWARDED

N. H., Nashua — Factory — Paterson Realty Co., 2 story 142x288 ft., to S. Belanger & Son, 308 Main St., archts. est. $40,000. J. F. McElwain Co. Nashua, Lessee. Noted June 5.

Mass., Chelsea—Power House—Forbes Lithograph Mfg. Co., 80 Boylston St., Boston, power house here, to Aberthaw Co. 27 School St., Boston. Archts. est. $50,000

Conn., Bantam — Factory — Trumbull-Vanderpoel Electric Mfg. Co., 2 story and basement, 6,599 ft. floor space, brick and timber addition, plain foundation, to Torrington Building Co., 182 Church St., Torrington. Archts. est. $40,000.

Buildings—Industrial (Continued)

Conn., Bridgeport — Plant — United Illuminating Co., 1115 Broad St., additions to plant, 100 x 100 boiler room, 55 x 150 ft. turbine generating room and 35 x 150 ft. switch house, to Casey & Hurley, 120 Pequonock St. Noted July 31.

Conn., Hartford — Oil Plant — Mexican Petroleum Corp., c/o Dewing & Dewing, Inc., 129 Turnbull St., 40 x 80 ft., brick and tile, plain foundation, Windsor Ave., to Bartlett & Brainard, 252 Asylum St. Archts. est. $60,000. Noted July 31.

Conn., New Britain—Boiler House—State Bd. Educ., Hartford, 1 story, 15 x 40 x 40 ft., for State Normal School, Prospect St., also coal pocket to M. J. Daley, 543 Bank St., Waterbury. Archt. est. $40,000.

Conn., South Windham—Foundry—Smith & Winchester Mfg. Co. foundry extension to Aberthaw Co., 27 School St., Boston Archts. est. $60,000.

Conn., Stratford (Bridgeport P. O.) — Factory—Bridgeport Safety Emery Wheel Co., 82 Knowlton St., Bridgeport, 1 story, 90 x 240 ft. factory here, to W. Muirhead & Son, 1024 Main St., Bridgeport. Archts. est. to exceed $40,000.

Pa., Phila.—Factory—J. J. Greensburg, Morris Bldg., 6 story and basement, 117-203 ft., rein.-con. and brick, plain foundation, 16th St. at North Phila. Sta., to J. S. Rogers Co., Drexel Bldg., Archts. est. $300,000. Noted June 17.

Pa., Trafford—Substation—Westinghouse Electric & Mfg. Co., East Pittsburgh, will build substation, by day labor. $50,000. Private plans.

Pa., Wilmerding—Plant—News Tribune Publishing Co., c/o Westinghouse Airbrake Co., 2 story and basement, 70x110 ft., steel, concrete and brick, Caldwell St., to Austin Co., Union Trust Bldg., Pittsburgh. Engrs. est. $40,000.

Ky., Corbin—Shop—Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville, machine shop, here, to Roehl & Gervin, Knoxville. Engrs. est. to exceed $40,000.

Ind., Evansville—Foundry—W. F. Hortig Plow Co., 2 story brick and steel, to W. A. Smith Constr. Co., Evansville, $60,000.

Ind., Laporte—Plant—Indiana Pattern & Model Co., plant addition, to Griewank Bros. Constr. Co., Laporte. Archts. est. $40,000.

Ill., Chicago — Factory — Pines Winterfront Co., 404 North Sacramento Ave., 2 story, 125x129 ft., rein.-con., brick and steel, plain foundation, 414-24 North Sacremento Ave., to W. J. Scown Constr. Co., 36 West Randolph St. Archts. est. $100,000.

Ill., Chicago—Factory—E. F. Houghton & Co., 240 West Somerset St., Phila., 3 story and basement, 85 x 118 ft., rein.-con., brick and steel addition to factory, plain foundation, 3524 Shields Ave., to Austin Co., 160 North La Salle St. Archts. est. $70,000.

Minn., Brainerd—Power House—Northern Pacific R.R., Ry. Bldg., 52 Jackson Ave., St. Paul, 2 story, electric power house, brick, and coal trestle, steel on concrete, here, to C. Skooglun, c/o owner.

Kan., Kansas City—Factory—Fairfax Iron & Steel Co, Federal Reserve Bank Bldg., will build 1 story, 160x700 ft., rein.-con., brick and steel, by day labor. Homer & Wyatt, 306 McMillen Bldg., Kansas City, Mo., engrs. Noted Mar. 20.

Kan., Topeka—Shop—Atchinson, Topeka & Santa Fe R.R. Co., 9th and Jackson Sts., 1 story, rein.-con. and steel, sand blast shop, to F. M. Spencer & Son, 10th and Van Buren Sts. Archts. est. $45,000.

Mo., Kansas City—Mill, etc.—J. H. Staley & Sons, Carthage, mill and feed unit, rein.-con. and steel, 500 ton capacity, to Reyburn Eng. & Constr. Co. 609 Waldheim Bldg. archts. est. $125,000.

Tex., Call—Mill—Kirby Lumber Co., lumber mill, to Lufkin Fdry. & Machine Co., Lufkin, $100,000. Noted July 24.

Tex., Ft. Worth—Plant—Gulf Refining Co., Diamond Hill, will construct addition of new stills, cracking system, etc., by day labor. $500,000. H. J. Kelley, c/o owner, engr.

Tex., Houston—Car Shops, etc.—Southern Pacific R.R., Southern Pacific Bldg., car repair shops, mill building and lumber sheds, Englewood Yards, to F. B. Chambers, Cotton Exch. Bldg., $500,000.

Calif., San Francisco—Factory—Illinois-Pacific Glass Co., Folsom and 14th Sts., 3 story, rein.-con., 19th and Harrison Sts., to G. Wagner, Inc., 181 South Park St., approximately $100,000.

Calif., San Francisco—Factory—L. R. Lurie, 315 Montgomery St., 2 story and basement, rein.-con., Harrison St., to Vukicevich & Bagge, 815 Bryant St., $45,000. California Magnaerete Shingle Co., lessee. Noted July 31.

Calif., San Francisco—Storage and Plant—Merchants Ice and Cold Storage Co., Battery and Lombard St., 7 story, rein.-con., Lombard St., to H. Larsen, 747 Monadnock Bldg., $400,000.

Ont., Port Arthur—Substation—Hydro Electric Power Comn. of Ontario 190 University Ave., Toronto, will build concrete, brick and steel electric distributing station here to distribute power generated at Impigon, by day labor. $40,000. F. A. Gaby, ch. engr.

New Zealand—Wellington—Power Plant—Secretary Pub. Wks., hydro electric plant on Waikaro River, incl. dam, spillway, headworks, etc., to W. G. Armstrong, Whitworth & Co., London, England, $5,878,200. Noted Apr. 3.

Buildings—Commercial

PROPOSED WORK

Mass., Boston—Bank—Boston Five Cent Saving Bank, 32 School St., having plans prepared by Parker, Thomas & Rice, 177 State St., 10 story and basement, 80x130 ft., 24-32 School St., Densmore, LeClear & Robbins, Park Sq. Bldg. engrs. $1,000,000.

Mass., Boston—Hospital—Hospital Dept. having sketches prepared by Ritchie, Parsons & Taylor, 15 Ashburton Pl., 6 story, isolation building, Harrison Ave., to exceed $200,000.

Mass., Brighton (Boston P. O.)—Apartment—Realty Operators Inc., c/o G. N. Jacobs, archt., 4 Park St., Boston, having preliminary plans prepared, 3 story and basement, Washington Heights, $200,000.

Mass., Deerfield — School — Deerfield Academy, plans school, $300,000. Engineer and architect not selected.

Mass., East Walpole—Storehouse—Bird & Sons, having preliminary plans prepared by Monks and Johnson, 99 Chauncy St., Boston, 1 and 2 story, 65 x 450 ft., storehouse and box shop. $200,000.

Mass., Fall River—School—City had revised plans prepared by L. A. Destremps, 11 Pleasant St., alterations and 2 story and basement, 125 x 175 ft., addition to Anthony School, Anthony St., $200,000. Noted July 17.

Mass., Hyannis—Temple—Masonic Temple Assn., having sketches prepared by J. W. Beal Sons, 62 Summer St., Boston, Masonic Temple, here, $150,000.

Mass., Medford—School—Plans school on land adjoining Brooks school in West Medford. $375,000. Engineer and architect not selected.

Mass., Newton—Church—First Church of Christ Scientist, 1296 Washington St., West Newton, having plans revised and refigured by Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, 2 story, 70 x 118 ft., brick and stone, Walnut and Otis Sts. Noted July 3.

Mass., Pittsfield—School—Bd. Educ. plans school, $150,000. Architect and engineer not selected.

Mass., Springfield—Office—Massachusetts Life Insurance Co., 500 Main St., plans office. $800,000 to $1,000,000. W. W. McClench, pres. Engineer and architect not selected.

Mass., Waltham—School—School Comn., having plans prepared by H. M. Haven and A. T. Hopkins, 11 Beacon St., Boston 2 story and basement, 36x136 ft., and 82x85 ft. wing, Lake View Dist. Noted June 19.

Mass., Worcester — Administration — Y. W. C. A., High St., having plans prepared by Frost, Edwards & Chamberlain, 300 Main St., 3 and 4 story and basement, 45 x 50 ft., High St., $150,000.

R. I., Apponaug—High School—School Bd., having plans prepared by H. A. Slocomb, 511 Westminster St., Providence, 2 story and basement, brick, $400,000.

R. I., Pawtucket—School—St. Raymond Church, having plans prepared by A. J. Murphy, Westminster St., Providence, school, Ninth St. $150,000.

R. I., Providence — Church — Christian Science Parish, c/o O. H. Lockwood, 171 Westminster St., and A. F. Shurrocks, archts., having sketches prepared for church, $150,000 to $200,000.

R. I., Providence—Mausoleum—Oakland Cemetery Corp., Edgewood St., plans mausoleum, $1,000,000. C. H. Pattee, secy.

Conn., Ansonia — High School — School Dept. plans addition to Derby High School, Minerva St., $150,000.

Conn., Danielson — School — St. James Church, 15 Franklin St. having plans prepared by H. F. Ludorf, 122 Main St., New Britain, 2 story and basement, brick and steel, plain foundation. $200,000. J. Deschaux, pastor.

Conn., Derby — School — City, plans 3 story brick addition to high school. $150,000. J. F. Picket ,supt. Engineer and architect not selected.

Conn., Greenwich—School—School Dept., soon takes bids brick, steel and stone, plain foundation. $200,000. Coffin & Coffin, 522 5th Ave., New York City, archts.

Conn., Hartford—Apartment—A. K. & T. J. Morrissey, 737 Farmington Ave., having plans prepared by G. H. Matthews, 48 Campfield Ave., two 20 apartment and one 40 apartment blocks, brick and stone, plain foundation, Lafayette St. and Washington Ave., $150,000.

Conn., Hartford—Store and Office—G. Fox & Co., 960 Main St., having plans prepared by Buck & Sheldon, Inc., 60 Prospect St., 3 story and basement, 130 x 150 ft., brick, plain foundation, Pratt and Trumbull Sts., $150,000.

Conn., Meriden — High School — School Dept., having plans prepared by W. T. Arnold, 34 West Main St., 2 story and basement, 165x270 ft., brick, plain foundation, $150,000.

Conn., Middletown — School — School Dept. plans new school $150,000. Engineer and architect not selected.

Conn., New Britain—School—City having plans prepared by C. C. Palmer, 85 West Main St., addition to Smalley School, Talcott St. $200,000.

Conn., New Haven — Apartment — L. Fusco, 164 Goffe Terrace, having plans prepared by L. J. A. Julianelle, 42 Church St., brick, plain foundation, Goffe Terrace. $150,000.

Conn., New Haven—Y. W. C. A., c/o W. F. Thompson, 342 Madison Ave., New York City, archt. and engr., having plans prepared, brick and steel, here. $200,000.

Conn., Waterbury — Nurses Home — Owner, c/o L. A. Walsh, archt., 51 Leavenworth St., having plans prepared nurses home, $200,000.

Conn., West Hartford (Hartford P. O.)—Clubhouse—Wampanoag Country Club, Building Comm., c/o Aymar Embury, archt., 150 East 61st St., New York City, plans clubhouse North Main St., here. $150,000.

Conn., West Hartford—(Hartford P. O.) School—School Dept., having plans prepared by R. F. Barker, 43 Farmington Ave., Hartford, 2 story and basement, 65x110 ft., brick addition, plain foundation, Seymour Ave., $150,000. Noted Jan. 24.

N. Y., Newburgh — High School — Bd. Educ. having plans prepared by A. F. Gilbert, 358 5th Ave., New York City, brick, steel and stone, plain foundation, here. $200,000.

N. Y., New York—Office—Bway. and 60th St. Corp., c/o C. N. Whinston, archt. and engr., 2 Columbus Circle, having plans prepared 11 story, 58 x 125 ft., brick, steel and stone, plain foundation, Bway. and 60th St.

N. Y., Waverly — School — Bd. Educ. Bldg. Com. will have plans prepared, 12 room addition to present high school. $160,000 to $170,000. Address H. I. Seeley, chn. bldg. com.

N. J., Trenton—Hotel—Syndicate plans hotel, West Grand and Union Sts. $300,000. J. S. Kenah, mayor, City Hall, member syndicate. Architect not selected.

Pa., Litchfield—School—Bradford Co. School Bd. and Bd. Educ., making plans high school. $250,000. Address J. W. Morrow, supt. schools. Architect and engineer not selected.

Pa., Mt. Lebanon—School—Bd. Educ., having plans prepared by Ingham & Boyd, Empire Bldg., Pittsburgh, 2 story and basement, 62 x 144 ft., brick, tile and steel. $180,000.

Pa., New Kensington—School—Bd. Educ. having plans prepared by C. J. Rieger & Co., Citizens Bank Bldg., Pittsburgh, 2 story and basement, addition, Ridge Ave. $160,000.

Pa., Phila.—High School, etc.—Bd. Educ., 19th St. above Chestnut Sts., plans senior high school, junior high school, continuation special elementary schools and additions at various locations. $20,000,000. Private plans.

Pa., Phila. — Hospital, etc. — Childrens Homeopathic Hospital having plans prepared by A. W. Barnes, Perry Bldg., 2 story, 36 x 42 wing, 3 story and basement, 36 x 70 ft. dispensary, 3 story and basement, 36 x 103 ft. nurses home, 2 story, 34 x 70 ft. laundry, also power house, brick, Franklin and Thompson Sts. $200,000.

Buildings—Commercial (Continued)

Pa., Phila.—Office—W. H. Webster, c/o F. E. Hahn, archt., 1112 Chestnut St., making plans 12 story and basement, 44x120 ft., brick and steel, plain foundation, northwest corner 18th and Chestnut Sts.

Pa., Phila. — Sales and Service-Foos-Hughes Co., 21st and Market Sts., plans 2 story and basement rein.-con., Allegheny Ave. between 32 and 33rd Sts. Engineer and architect not selected.

Pa., Scranton—Garage and Service—P. J. Casey, Hotel Casey, having plans prepared by L. Davis, 616 Spruce St., 3 story and basement, 120x160 ft., brick and steel, plain foundation. Adams Ave. and Spruce St. $200,000.

Md., Cumberland—Y. M. C. A., having revised plans prepared by Shattuck & Layer, 19 South La Salle St., Chicago, Ill., 3 story, 104x191 ft., brick, and concrete, plain foundation, $250,000. Noted June 5.

Md., Evergreen—(Baltimore P. O.)—College—Loyola College, having plans prepared, by L. R. White Jr., Hearst Tower, Baltimore. 2 story, 80x155 ft., brick and steel, plain foundation, $150,000.

D. C., Washington—Store—The Hecht Co., 7th and F St., soon takes bids, 7 story and basement, 125 x 154 ft., brick, steel, rein.-con., terra cotta, plain foundation, F St. $1,500,000. J. Hunt, Inc., 30 North Michigan Ave., Chicago, Ill., archts.

N. C., Asheville—Hotel—Lafayette Development Co. having plans prepared by R. Greene, Asheville, 5 story, 100 x 300 ft., stone, tile and concrete. $750,000.

N. C., Charlotte — Film Exchange — Thomas & Vaughn Hawkins having plans prepared by S. K. Dewey, Charlotte, central film exchange, 3rd and Poplar Sts. $150,000-$175,000.

N. C., Pinebluff—Hotel—Charter has been issued to A. P. Holbrook, 20 East Park St., Newark, N. J., J. S. Smith, Virginia Beach, Va., and M. F. Butner, Winston-Salem, authorizing construction of 50 room hotel, here. $150,000.

N. C., Raleigh—College—North Carolina State College of Agriculture and Engineering, having plans prepared by H. Upjohn, Grand Central Terminal New York City, 3 story and basement, 60x180 ft., rein.-con. ad. brick. $200,000.

Fla., Dunedin—Hotel—Fenway Hotel Co. plans 3 story hotel, $200,000. Calhoun & Pitcher, Tampa, financial agts.

Fla., Homestead—Hotel—W. D. Horn and associates, c/o Bank of Homestead, plans hotel, on Parlin tract, $150,000. Engineer and architect not selected.

Fla., Jacksonville — Bank and Office — Barnett Natl. Bank plans 12 or 15 story bank and office, Laura and Adams Sts. B. H. Barnett, pres.

Fla., Miami—Hotel—A. O. Yearian and associates, Hill Bldg., having plans prepared by J. C. Gault, Miami, 20 story, 1,000 rooms, foot of Dallas Park. $2,000,000.

Fla., Vero—Hotel—Vero Hotel Co., having plans prepared by F. H. Trimble, Orlando, 3 story, 21st and Seminole Sts $250,000.

Ala., Mobile — Hospital, etc. — Election Sept. 8, to vote on $485,000 bonds for improving city hospital, docks, fire alarm and police alarm systems and a centralized fire department.

La., Baton Rouge — Dormitories and cottages—C. V. Link, state archt. Greater Agricultural College, preparing plans and takes bids about Sept. 1, two 2 or 3 story dormitories and 6 cottages, brick and concrete. $250,000 each.

La., New Orleans—Offices—Union Indemnity Bldg., 830 Union St., soon lets contract, 10 story, brick, steel, and stone, plain foundation. Favrot & Livaudais Ltd, 1202 Hibernia Bk. Bldg., archts. Noted May 1.

La., New Orleans — Temple — Masonic Fraternity, plans 18 story limestone—St. Charles and Perido Sts., $2,500,000. Archt. and engineer not selected.

Tenn., Nashville—College—Scarritt College for Christian Workers, J. L. Cuninggin, pres., having plans prepared by H. C. Hibbs, 4th and 1st Natl. Bank and Trust Bldg., Bennett Memorial Hall, on campus. $500,000. Noted Mar. 20.

Ky., Louisville—Hospital—Bd. Tuberculosis Hospital, Board of Trade Bldg., takes bids about Oct. 15, 2 story and basement, hospital. $500,000. D. X. Murphy & Bros., Louisville Trust Bldg., archts. Noted July 31.

Ky., Louisville—Office—Starks Realty Co., Starks Bldg., takes bids about June 1, 1925, 10 or 12 story addition to Starks Bldg., 4th and Walnut Sts. $1,500,000. Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, Ill., archts. Noted Mar. 20.

Ky., Midway — Dormitory — Kentucky Female Orphan School having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, 2 story and basement, rein.-con. and brick. $150,000.

O., Cleveland — Garage—The Cleveland Railway Co., G. L. Radcliffe, vice pres. and general mgr., Hanna Bldg., had preliminary plans completed, 2 or 3 story, brick and rein.-con., Central Ave., near East 9 St., $150,000. The Watson Co., 4614 Prospect Ave., archts.

O. Mansfield — Bank — Citizens Natl. Bank having plans prepared by E. B. Caldwell, Jr., archt., 886 Main St., Bridgeport, O., 1 story and basement, 50 x 115 ft., brick, rein.-con., plain foundation, $150,000.

O., Salineville — High School — Bd. of Educ. plans high school. $200,000, J. K. Giffen, St. Clairsville, archt.

Ind., Evansville — Church — Central Methodist Episcopal Church, 300 Mary St., soon lets contract, brick, steel and wood church, community and parish houses, plain foundation, $200,000. C. J. Troutman, 409 Amer. Trust Bldg., and W. C. Jones, 19 South La Salle St., Chicago, Ill., archts. Noted July 31.

Ill., Chicago—Apartment—Two Hundred and Nine Lake Shore Drive Corp., c/o B. Marshall, archt., 612 Sheridan Rd., Wilmetts, having plans prepared 18 story and basement, 133 x 318 ft., rein.-con., brick and steel, plain foundation, Lake Shore Drive. $1,900,000.

Ill., Chicago — Bank and Club — Carpenters District Council of Chicago, 106 North La Salle St., having plans prepared by P. Gehrhardt, 64 West Randolph St., 4 story and basement, 70 x 109 ft., rein.-con., brick and terra cotta, plain foundation, Erie St. $200,000.

Wis., Wauwautosa—Asylum—Milwaukee Co. Bd. Trustees, W. Coffey mgr., soon takes bids 3 story and basement, brick, tile and concrete addition, plain foundation. $350,000. R. Meismer & Bros., 221 Grand Ave., Milwaukee, archt. Noted Feb. 21.

Kan., Topeka — Church — Westminster Presbyterian Church, 1252 College St., having plans prepared by O. D. Cuthbert, 732 Kansas Ave., 3 story and basement, 100 x 130 ft., rein.-con., brick, tile and stone. $150,000.

Mo., Kansas City—High School—Bd. Educ., having plans prepared by C. A. Smith, Finance Bldg., 4 story and part basement, 150x290 ft., rein.-con. and brick. $1,500,000.

Mo., Springfield—Science Hall—Southwest State Teachers College having plans prepared by E. Hawkins & Co., 400 McDaniels Bldg., 3 story and basement, 58 x 217 ft., brick, rein.-con. and stone. $250,000.

Mo., St. Louis—Office—Pulitzer Pub. Co., 12th and Olive Sts., soon takes bids 7 story and basement, 55 x 106 ft., rein.-con., steel, brick and stone, addition, Olive St. Private plans.

Mo., St. Louis—Warehouse, etc.—Natl. Terminals Corp., c/o W. J. Hogan, 1815 North Penn St., Indianapolis, plans railroad freight warehouse and terminals O'Fallon, Hempstead, 7th and 9th Sts., here. $15,000,000. Private plans.

Tex., Austin — Office — University of Texas having plans prepared by H. M. Green Co., North Texas Bldg., Dallas, 3 story and basement, brick and concrete, Campus. $300,000.

Tex., Corsicana — Office — State Natl. Bank plans 6 story and basement, brick and concrete, Beaton and Collin Sts. $150,000. Engineer and architect not announced.

Tex., Dallas — Auditorium — State Fair Assn. having plans prepared by E. J. Russell, St. Louis, Mo., brick, concrete and steel. $500,000. Noted Feb. 28.

Tex., Dallas—Hotel, Stores and Offices—C. P. Adams, Stanleigh Court, plans 12 story and basement, 100 x 200 ft. hotel, $300,000, 6 story and basement, 100 x 145 ft., stores and offices, $200,000, both brick and concrete. Engineer and architect not announced.

Tex., Ft. Worth — Science — Texas Christian University, E. M. Waits, pres., plans brick and concrete building on Campus. $150,000. Engineer and architect not selected.

Okla., Holdenville—Hospital—City plans election Aug. 19, to vote $160,000 bonds for 3 story and basement, 80 x 140 ft., brick, plain foundation. Tonini & Bramlet, Arcade Bldg., Oklahoma City, Archts.

Okla., Stillwater—Dormitory—State Bd. Agriculture, Capitol Bldg., Oklahoma City, having plans prepared by J. [illegible], 19 West Main St., Oklahoma City, 3 story and basement, 120 x 180 ft., rein.-con. and brick, plain foundation, on campus. Noted. $300,000 bonds voted.

Calif., Alhambra—Church—First Methodist Church, E. J. Inwood, pastor, plans new church buildings, on [illegible] x 35[illegible] ft. site, Main St. To exceed $[illegible],000. Engineer and architect not selected.

Calif., Bakersfield—Schools—City School Dist. plans election to vote $3,000,000 bonds for additional schools.

Calif., Eagle Rock—Apartment—R. Owings, c/o W. Bruce, archt., Chapman Bldg., Los Angeles, having preliminary plans prepared approximately 12 story and basement, rein.-con.

Calif., Glendale — Hospital — Physicians and Surgeons Hospital, c/o Roth & Parker, archts., 7060 Hollywood Blvd., Los Angeles, having plans prepared about 3 story and basement, approximately 75 x 155 ft., rein.-con., Laurel Ave. $200,000.

Calif., Long Beach—Apartment—Owner represented by R. T. Lovell, 200 Santa Fe St., having plans prepared by F. L. Lindsay, Marine Bank Bldg., 3 story and basement, probably rein.-con., 6th St. and Pine Ave. $160,000.

Calif., Long Beach—Club—Pacific Club, D. M. Smith, pres., Empire Theatre Bldg., having plans prepared by Curlett & Beelman, Union Bank Bldg., Los Angeles, 14 story, 2 basements, approximately 160 x 260 ft., rein.-con., Ocean Ave.

Calif., Long Beach—Theatre and Stores—Davies & Baume, Farmers & Merchants Bank Bldg., preparing preliminary plans theatre and stores, fireproof, Anaheim St. $150,000. Owners name withheld.

Calif., Los Angeles — Church — Roman Catholic Archbishop of San Francisco, Higgins Bldg., having plans prepared by E. G. Martin, Citizens Natl. Bank Bldg., St. Brendons Church, brick and steel, 3rd and Wilton Sts. $180,000.

Calif., Los Angeles — Garage — G. M. Duntley, c/o Jefferey & Schafer, archts., Kerchoff Bldg., having plans prepared 1 story, 125 x 150 ft., brick, San Pedro St.

Calif., Los Angeles—Hospital—California Lutheran Hospital, 1414 South Hope St., plans 8 story and basement, approximately 45 x 220 ft. hospital, 8 story and basement service building and 50 x 80 ft. power house, etc. $1,000,000 or more. Walker & Eisen, Great Republic Bldg., archt.

Calif., Los Angeles—Hotel—L. B. Gibson, c/o C. F. Plummer, archt., Story Bldg., had plans prepared 4 story and basement, 50 x 150 ft., brick, South Union Ave.

Calif., Los Angeles — Schools — Having plans prepared by J. C. Austin, Detwiler Bldg., Wilmington and Arlington Heights Schools, $400,000 and $350,000 respectively; by Hunt & Burns, Laughlin Bldg., Roosevelt School, $270,000; by Jeffery & Schaefer, Kerchkoff Bldg., Franklin School, $365,000; by G. M. Lindsey, Laughlin Bldg., Belvedere Gardens School, $400,000; by Noerenberg & Johnson, Railway Bldg., Part Time School, $300,000; by Walker & Eisen, Great Republic Bldg., Goodyear School, $350,000.

Calif., Los Angeles—Theatre—J. Toplizsky, H. W. Hellman Bldg., having plans prepared by C. M. Winslow, Van Nuys Bldg., rein.-con., theatre, Carthay Center. $150,000.

Calif., Los Angeles—Warehouse—R. O. Whyman, representing owner, 714 South Hill St., having plans prepared by Stanton, Reed and Hibbard, Metropolitan Bldg., portions of 5 and 2 story, rein.-con., 9th St. To exceed $150,000.

Calif., Los Angeles—Warehouse—Santa Fe Railway Co., Kerchkoff Bldg., having plans prepared, 6 story and basement, 14[illegible] x 255 ft., rein.-con., Mateo and Industrial Sts. Private plans.

Calif., Oakland — Apartment — E. M. Sharpe, archt., 60 Sansome St., San Francisco, preparing plans 6 story and basement, concrete. $150,000. Owners name withheld.

Calif., Oakland — Hotel — Miller & Warnecke, archts., Artico Bldg., preparing preliminary plans 6 story, rein.-con., near Lake Merritt. $200,000. Owner's name withheld.

Calif., Pasadena—Mausoleum—Pasadena Mausoleum Co., c/o Starrett & Payne, archts., Western Mutual Life Bldg., Los Angeles, having plans prepared (1st unit), 1 story, 57 x 208 ft. with two wings [illegible] ft. wide, rein.-con. and stone, North Raymond Ave. $150,000.

Buildings—Commercial (Continued)

Calif., Pasadena — Temple — Masonic Lodges of Pasadena having plans prepared by L. C. Brockway, Security Bldg., approximately 120 x 200 ft., fireproof, Euclid Ave. To exceed $150,000.

Calif., Sacramento — Stores — Woolworth Co., Rialto Bldg., San Francisco, plans 4 or 5 story and basement, 50 x 160 ft., steel and concrete, "K" St. $150,000. Engineer and architect not selected.

Calif., Salina — Warehouse — Blackie & Co., El Sausal and Front Sts. plans 3 story, 60 x 200 ft., Front St. Engineer and architect not selected.

Calif., San Bernardino—Theatre, Stores and Offices—Platt Investment Co., c/o H. E. Jones, archt., 445 4th St., having plans prepared 3 story and basement, 100 x 175 ft., rein.-con., E and 5th Sts. $350,000 or more.

Calif., San Diego—Athletic Club—W. A. Turquand, 622 Commonwealth Bldg., organizing club and having preliminary plans prepared by W. H. Wheeler, 338 Spreckles Bldg., 7 story and basement, fireproof club house. To exceed $150,000.

Calif., San Diego—School—City having plans prepared by Rogers & Stevenson, Spreckles Bldg., senior high school. $200,000 or more.

Calif., San Francisco — Apartments — C. Werner, archt., Santa Fe Bldg., preparing plans 6 story and basement, class "A" rein.-con. and steel, Nob Hill. Owners name withheld.

Calif., San Francisco—Museum, etc.—City and San Francisco Co. having plans prepared by Balsewell & Brown, 251 Kearney St., museum and Amer. Legion quarters, to exceed $150,000, also by W. Polk & Co., Hobart Bldg., for opera house, to exceed $150,000, both on Van Ness Ave., in connection with War Memorial group of buildings.

Que., Quebec—Seminary—Le Seminaire of Quebec, having plans prepared by Bergeron & Lemay, 145 St. John St., new wing to seminary, St. Famille St. $300,000.

Ont., Toronto — School — University of Toronto, Queens Park, plans 3 story and basement, rein.-con., brick and steel, plain foundation, Queens Park. $400,000. Engineer and Architect not selected.

BIDS DESIRED

Mass., Lynn—High School—Taking bids 4 and 5 story, 55 x 125 ft. and 85 x 165 ft., rein.-con., brick and stone, Essex and Liberty Sts. $600,000. G. A. Cornet, 10 Central St., archt. Noted June 19.

Mass., Dorchester (Boston P. O.)—School—Aug. 12, by T. P. Glynn, Comr. Schoolhouse Dept., City Hall, Boston. 2 story and basement, 160 x 245 ft., rein.-con. and brick, Charles St., Mather Dist., $400,000. O'Connell & Shaw, 134 Newbury St., Boston, archts.

Conn., Bridgeport—Store—Sept. 1, D. M. Read Co., Main and Fairfield Aves., 6 story and basement, brick and steel, plain foundation, Broad St. $1,000,000. Monks & Johnson, 99 Chauncy St., Boston, Mass., engr. J. W. Northrop, 211 State St., archt. Noted July 31.

Conn., New Britain—School Sacred Heart of Jesus Church, taking bids 2 story and basement, 75 x 175 ft., brick, Gold St., $300,000. G. P. B. Alderman & Co., 316 High St., Holyoke, archts. Noted June 19.

Conn., New Haven—Hospital—Hospital of St. Raphael's, 1442 Chapel St., c/o L. A. Walsh, archt., 51 Leavenworth St., Waterbury, taking bids 4 story and basement, 45 x 150 ft., brick, plain foundation, George St., $150,000. Noted June 26.

Conn., Groton—Home—Oct. 11, by Combined Lodges of Odd Fellows Comm., 3 story and basement, 160 x 368 ft., brick and stone, Fairview Home, $250,000. Whiton & McMahon, 36 Pearl St., Hartford, archt. Noted Dec. 13.

N. Y., Seneca Falls—School—Aug. 21, by Bd. Educ., brick, steel and stone, plain foundation. $200,000. Tooker & Marsh, 101 Park Ave., New York City, archts.

N. Y., Smithtown Branch—School—Aug. 22, by Bd. Educ., brick, steel and stone school, plain foundation. $200,000. Tooker & Marsh, 101 Park Ave., New York City, archts.

N. J., Morris Plains—Hospital—Sept. 4 (extended date), at office B. G. Lewis, comr. Institutions and Agencies, State Office Bldg., Hanover St., Trenton, for six new buildings at State Hospital here; adv. E. N.-R. Aug. 7.

Pa., Lancaster—Dormitories—Aug. 14, by Franklin and Marshall College, two 2½ story and basement, 34 x 118 ft., rein.-con. and brick, plain foundation, College Ave. and Harrisburg Pike. Day & Klauder, 1416 Chestnut St., archts. Noted July 10.

Pa., Phila.—Bank and Office—Aug. 12, by Dennison & Hirons, archts., 288 Lexington Ave., New York City, 21 story and basement, 60 x 97 ft., brick and steel, plain foundation, north east corner Broad and Arch Sts., for Liberty Title & Trust Co., City Center Bldg. $1,250,000.

Ala., Birmingham—Club—Aug. 20, by Birmingham Athletic Club, 510 North 20th St., 10 story, 57 x 140 ft., and 4 story, 93 x 140 ft., concrete and steel, 3rd Ave. and 24th St. $600,000. Warren, Knight & Davis, Birmingham, archts.

Mich., Battle Creek — School — J. D. Chubb, archt., 109 North Dearborn St., Chicago, Ill., taking bids Fremont School, for Bd. Educ., 2 story and basement, 144 x 156 ft. brick and steel, here, $150,000.

Ill., Chicago—Stores and Apartment—Hall, Lawrence, Rippel & Radcliffe, archts., 123 West Madison St., taking bids 3 story and basement, 178 x 224 ft., brick, plain foundation 53rd St. and Kunbark Ave., for Eiger Bros., 1243 South Wabash Ave. $350,000.

Minn., Buhl—High School—Aug. 15, by A. S. Smith, clk. Bd. Educ., taking bids 2 story and basement, 160 x 200 ft., brick and stone, concrete pile foundation. $350,000. Hausher & Kerr, 548 Hamm Bldg., St. Paul, archt.

Kan., Great Bend—Hotel—Aug. 12, by Ellis Charles & Co., archts., 404 Orpheum Bldg., Wichita, 4 story and basement, 85 x 100 ft., brick and stone, for Great Bend Hotel Co. $150,000.

S. D., Deadwood—School—Aug. 19, by Bd. Educ., 3 story and basement, 68 x 130 ft., rein.-con. and brick, $175,000. Perkins & McWayne, 322 Paulton Blk., Sioux Falls, archts. Noted Apr. 5, 1923.

Tex., Kingsville — Administration — Aug. 18, by Bd. Regents South Texas State Teachers College, c/o M. O. Flowers, chn., 2 story, 200 x 227 ft., brick, concrete and stucco. $260,000. Endress & Cato, Bankers Mortgage Bldg., Houston, archts.

Tex., Port Arthur—Store and Office—Aug. 18, by J. R. Adams, and H. C. Mauer, archt., 750 Spruce St., Beaumont, 6 story and part basement, 114 x 140 ft., rein.-con., steel and brick, 5th and Austin Sts. $500,000. R. J. Cummins, 727 Bankers Mortgage Bldg., Houston, engrs. Noted Mar. 27.

Calif., Los Angeles—Sunday School—H. L. Pierce, archt., Wright-Callendar Bldg., taking bids 3 story and basement, 80x150 ft., concrete, steel and brick, 2nd and Hobart Blvd., for Wilshire Methodist Church, 203 South Hobart Bldg.

BIDS RECEIVED

O., Akron — High School—Bd. Educ., from C. W. and P. Construction Co., 718 Second Natl. Bldg., $376,446.

O., Youngstown—High School—Bd. of Education, general contract, East Side High School, from Hawkins-Downie Masson Co., Princeton and Hillman Sts. $563,522.

CONTRACTS AWARDED

Me., Bethel — Dormitory — Gould Academy, 3 story and basement, 65 x 100 ft., brick and stone, to A. F. Warren & Son, Lewiston. Archts. est. $150,000.

N. H., Manchester—Temple—Order of the Masons (F.&A.M.) 3 story, 90x100 ft., temple, Elm St., to L. H. Shattuck Inc., 208 Granite St., archts. est. to exceed $150,000. N. H. Bond, chr. bldg. com.

Vt., Lyndenville — Business—Lyndenville Realty Trust, 2 story, 65x173 ft., to Rowe Constr. Co., Woodsville, N. H. archts. est. $150,000. Noted July 3.

Mass., Pittsfield—Bank and Office—Berkshire Co. Savings Bank, 6 story, 60 x 75 ft., brick, stone and steel, plain foundation, North St., to Hoggson Bros., 485 5th Ave., New York City. Archts. est. $175,000.

Mass., Winthrop—School Bd: Selectmen, 2 story and basement, 100x160 ft., junior high school, Herman St. to S. L. Milton Constr. Co., 80 Boylston St., Boston, $235,307, also heating system to General Constr. & Repair Co., 304 Main St., Cambridge, $53,637. Noted July 24.

R. I., Providence—Apartment Hotel—Owners Improvement Corp., 50 East 42nd St., New York City, 8 story, brick, stone and steel, Wayland Sq. here, to Shape, Bready & Peterkin, 50 East 42nd St., New York City, $1,300,000.

Pa., Pittsburgh—Store—J. M. Roberts & Son., Market St., general contract 4 story and basement, 38x80 ft., Wood and Diamond Sts., to D. T. Riffle, 1006 Forbes St. archts. est. $300,000. Noted May 22.

N. Y., New York—Nurses Home—Medical Superintendent Bellevue Hospital, 415 East 26th St., aditional wings, to Bellevue training school for nurses, general contract, to P. J. Carlin Constr. Co., Grand Central Terminal, $423,400; heating and ventilating, to T. F. Hall, Inc., 213 East 44th St., $33,115. Noted May 29.

N. Y., Nyack—Hospital—Nyack Hospital, 3 story, 120 x 127 ft. brick, steel and stone, plain foundation, to D. C. Weeks & Son, Inc., 347 Madison Ave., New York City. Archts. est. $200,000.

N. J., Atlantic City—Bath House—H. E. Stout, Guarantee Trust Bldg., 4 story, 65 x 104 ft. brick and steel, Kentucky Ave. and Boardwalk, to M. Beck, 601 Adriatic Ave.

Pa., Phila.—School—William Penn Charter School, 12th St. above Chestnut St., 2 story and basement, rein.-con. and stone, plain foundation, Fox St. and Schoolhouse Lane, to H. H. Conway, 5800 Walnut St.

Md., Baltimore—Factory—J. Nechankin, c/o Star Motor Co., 816 East Fayette St. (owner and contractor), will build 2 story, 30 x 156 ft., brick, plain foundation, Guilford Ave., near Preston St.

Md., Towson—Hospital and Administration—Eudiwood Sanitarium, 3 story, 50 x 130 ft., brick, plain foundation, to John Cowan & Son, 17 East Lafayette St., $150,000.

D. C., Wash.—Hotel—Willard Hotel, addition, to G. A. Fuller Co., Munsey Bldg., $500,000.

W. Va., Huntington—Bank and Office—First Natl. Bank, 4th Ave. and 10th St., 12 story, 60 x 70 ft., rein.-con. and brick addition 4th Ave. and 10th St., to F. P. Hines & Sons, 2580 3rd Ave. Archts. est. $500,000.

Fla., St. Petersburg—Office and Store—J. B. Smith, 7 story, to F. J. Mason, St. Petersburg, $178,260.

Ky., Midway—School—Kentucky Female Orphan School, 2 story and basement, 110 x 130 ft. academic building, to Wortham Constr. Co., 1308 Starks Bldg., $195,000. Noted July 31.

Ky., Murray — College — Murray State Normal School, 3 story and basement, concrete, brick and stone, administration, auditorium, etc., to Forbes Mfg. Co., Hopkinsville. Approximately $150,000. Noted July 24.

Ky., Owensboro—Church—St. Stephens Catholic Church, rein.-con. and brick church, to J. L. Grewnwell, Owensboro. Archts. est. $150,000. Noted May 8.

O., Cleveland — Postal Sub-station, Offices, etc. — Jay Realty Co., c/o W. S. Ferguson Co., archt., 1900 Euclid Ave., 3 story and basement, 74 x 100 ft., brick, and rein.-con., West 25th St. and Jay Ave., to J. G. Woide, 1659 East 86th St., $150,000.

O., Youngstown—Bank and Office—First National Bank, West Federal St., 13 story and basement, 90 x 150 ft., structural steel, stone, Central Sq. and West Federal St., to Mellon-Stuart Co., $1,500,000 to $2,000,000. Noted Feb. 28.

Ill., Chicago—Apartment—L. E. Richter, 2019 Melrose Ave., 3 story and basement, rein.-con. and brick, plain foundation, 660 Barry Ave., to Rosenberger Peterson & Leaf Co., 5153 North Clark St. Archts. est. $205,000.

Ill., Chicago—Office—Bake Bldg. Corp., Tower Bldg., 10 story and basement, 120 x 189 ft., rein.-con., brick, steel and stone, plain foundation, Clinton and Adams Sts., to Bulley & Andrews, 2040 West Harrison St. Archts. est. $1,500,000.

Ill., Chicago—School—Five Holy Martyrs, 4327 South Richmond Ave., 2 story and basement, 58 x 100 ft., rein.-con. and brick, plain foundation, 43rd St. and Francisco Ave., to Schultz Constr. Co., 335 North Avers Ave. Archts. est. $150,000. Noted June 5.

Ill., Chicago—Store and Apartment—I. P. Robins, 36th and Lawrence Aves., 3 story and basement, 100 x 125 ft., brick and steel, plain foundation, 3617-25 Lawrence Ave., to Thogerson & Erickson, 4804 North Kedzie St.

Ia., Burlington—School—Bd. Educ., D. S. Cooper, secy., 2 story and basement, rein.-con., brick and stone addition, general contract, to M. A. Floyd Co., 430 Oak Grove St., Minneapolis, Minn., $220,000. Noted July 10.

Ia., Iowa City—High School—State Bd. Educ., W. H. Gemmill, secy., 2837 Kingman St., Des Moines, 2 story and basement, rein.-con., brick, tile and stone, on State University campus, to J. A. McDonald Constr. Co., 235 Steiner Bldg., Minneapolis, $188,000. Noted Aug. 7.

Minn., St. Paul—Apartment—Hotel—H. C. Struchen, 404 Dakota Bldg., and J. J.

Buildings—Commercial (Continued)

Watson, 1207 Pioneer Bldg., two 9 story and basement, 40 x 150 ft., rein.-con., brick and tile, 452-456 Summit Ave., to H. C. Struchen, 404 Dakota Bldg. Archts. est. $1,000,000. Preliminary sketches made by A. H. Stem, 601 Endicott Bldg.

Minn., St. Paul — Church — St. Lukes Church, R. C. and J. C. Byrne, 22 Lexington Ave. N., general contract rein.-con. and brick, Summit and Lexington Aves., to Butler Bros., 643 Hamm Bldg., $350,000.

Kan., Parsons—High School—Bd. Educ., 3 story, 167 x 280 ft., and 2 story, 52 x 120 ft. brick and stone, general contract, to F. M. Spencer & Sons, 10th and Van Buren Sts., Topeka. Archts. est. $400,000. Noted June 6.

Neb., Columbus—High School—Bd. Educ, c/o R. R. McGee, 3 story and basement, 125x226 ft., brick, stone and terra cotta, to H. Ohlescu & Sons. David City. Noted June 19.

Neb., Omaha—Church—Second Church Christ Scientists 2story and basement, 110x110 ft., rein.-con., brick and stone, 41st and Davenport Sts., to G. Parsons, 404 Arthur Bldg.

Mo., Kansas City—School—Bd. Educ., general contract 3 story and part basement, 150 x 365 ft., rein.-con., brick and stone, to Collins Bros., 1600 Grand Ave., $630,776.

Mo., Lebanon — Court House — Laclede Co., 3 story and basement, 65 x 100 ft., rein.-con., brick and stone, to M. E. Gilloiz, Monett. Noted July 24.

Mo., St. Louis—Market—City, general contract 3 story and basement, 226 x 270 ft., rein.-con., brick and stone, market and garage, to Fruin-Colnon, Merchants Laclede Bldg., $765,000. Engrs. est. $850,000. Noted July 31.

Ark., Paragould—Church—First Methodist Church, 2 story, rein.-con., brick and stone, to J. P. Jones Constr. Co., Paragould. Archts. est. $150,000.

Tex., Dallas—Apartment-Hotel—Melrose Terrace Corp., c/o Rucker & Jones, Adolphus Hotel, 7 story and basement, brick and concrete, Maple and Wolf Sts., to Hickey & Montgomery, Magnolia Bldg., $1,000,000. Noted Mar. 13.

Tex., Dallas — Church — First Baptist Church, Ervay and Patterson Sts., addition to and remodeling brick and stone church, Ervay and Patterson Sts., to Christy-Dolf Constr. Co., Southwestern Life Bldg., $150,000.

Colo., Denver—High School—W. A. E. Stutt, secy. Bd. Educ., School Dist. 1, School Administration Bldg., general contract West High School, 3 story, 250 x 450 ft., rein.-con., brick and steel, concrete pile foundation, between West 9th, West 10th, Elati and Fox Sts., to W. Tamminga, Tramway Bldg., $632,000; plumbing, to Midwest Plumbing & Heating Co., 1104 18th St., $49,944; wiring, to W. A. J. Guscott, 1100 California St., $36,450. Noted July 10.

Calif., Beverley Hills—Theatre, Apartment and Store—West Coast Theatres Co. Inc., Knickerbocker Bldg., Los Angeles, 2 story and basement, 100x150 ft., brick, concrete and steel, to Carpenter Bros., 109 Canyon Dr., $153,575.

Calif., Fullerton—Theatre and Cafe—S. G. Chapman, approximately 120 x 135 ft., rein.-con. and hollow tile, Spadra and Chapman Aves., to Milwaukeee Building Co., Wright-Callendar Bldg., Los Angeles. Archts. est. approximately $300,000.

Calif., Glendale—Hotel and Store—J. W. Usilton (interested), 201 North Brand Blvd., 4 story and basement, brick, Wilson Ave., to M. Smith, 6665 Sunset Blvd., Los Angeles, $155,250.

Calif., Hollywood — Hotel—Hollywood—California Hotel Corp. constructing hotel on Hollywood Blvd., to Foundation Co., 120 Liberty St., New York City, N. Y., about $3,000,000.

Calif., Los Angeles — Club — Jonathan Club, Pacific Electric Mutual Bldg., 12 story and basement, 104 x 175 ft., brick and steel club house with 5 story and basement garage, Figueroa and 6th Sts., to Lange & Bergstrom, Washington Bldg., total cost $2,200,000. Noted July 31.

Calif., Los Angeles—Synagogue—Temple Eman-U-El, 1 story and basement, 100 x 125 ft., brick synagogue, 6th St. and Wilshire Blvd., to Macdonald & Kahn, Spring Arcade Bldg., $155,000.

Calif., Los Angeles—Theatre, Stores and Offices—West Coast Theatres, Inc., Knickerbocker Bldg., 2 story and basement, 190 x 250 ft. rein.-con., Washington and Vermont Sts., to Lange & Bergstrom, Washington Bldg., $453,250.

Calif., Los Angeles—Warehouse—Union Terminal Warehouse Co., 747 Warehouse St., 2 story, 100 x 150 ft., rein.-con., Central Ave. and 7th St., to H. M. Baruch, 441 H. W. Hellman Bldg., cost plus percent basis.

Calif., San Francisco—High School Annex—City and San Francisco Co., High School of Commerce Annex, Fell St., general contract to Mahony Bros., Flood Bldg., $704,800, electrical work to, L. Flatland, 1959 Mission St., $42,400, plumbing to, A. Lettich, 365 Fell St., $43,716, mechanical equipment to, W. H. Picard, 5656 College Ave., Berkley, $71,427.

Calif., San Francisco—Store and Office—Marian Realty Co., 1171 Market St., will build 6 story and basement, steel and brick, Market St. near 7th St., by day labor. $150,000. Rousseau & Rousseau, 1171 Market St., archt.

Federal Government Work

PROPOSED WORK

Wash., Vashon Island—Towers—Spec. 5008—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans steel beacon Towers.

Calif., San Diego—Extension—Spec. 5009—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extension to building.

BIDS DESIRED

N. Y., Walden—Post Office—Aug. 26, by Treasury Dept., at office Supervising Archt., Wash., D. C., 1 story, brick and terra cotta, post office, here.

Pa., Pittsburgh—Lock Gates—Sept. 3, by U. S. Engineer Office, furnishing and delivering steel lock gates for locks 12 and 13, Monongahela River; adv. E. N.-R. Aug. 7.

N. C., Oteen—Waterworks, etc.—Sept. 2, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., septic tank, sludge bed, alterations and extending water and sewerage systems, at U. S. Veterans Hospital 60, here; adv. E. N.-R. Aug. 7.

Ala., Florence—Lock Gates, etc.—Sept. 20, at U. S. Engineers Office, War Dept., steel lock gates, fittings, castings, etc., for lock at Wilson Dam Tennessee River and erection of same.

Ala., Mobile—Steel Pontoons—Aug. 21, by U. S. Engineer Office furnishing steel pontoons and steel pontoon pipe; adv. E. N.-R. Aug. 7.

Tenn., Memphis—Belt Conveyor—Aug. 20, by Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bldg., one belt conveyor; adv. E. N.-R. Aug. 7.

Tenn., Memphis—Water Stills—Aug. 30, by Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bldg., furnishing and delivering 6 water stills; adv. E. N.-R. Aug. 7.

O., Cincinnati—Water Tanks—Aug. 18, at U. S. Engineer Office, 405 Custom House, steel water tanks at dams 36 and 38 Ohio River; adv. E. N.-R. Aug. 7.

Mich., Detroit — Dredging — Sept. 3, by U. S. Engineer Office, Detroit, dredging Russell Island Shoal, St. Clair River; adv. E. N.-R. Aug. 7.

Ill., Chicago—Sprinkler System—Aug. 21, by Treas. Dept. at office Supervising Archt., Wash., D. C., sprinkler system for fire protection in basement of U. S. Marine Hospital, here; adv. E. N.-R. Aug. 7.

BIDS RECEIVED

Mass., Nantucket — Dredging — Federal Government, dredging in channel at entrance of Nantucket Harbor, from Gerrish Dredging & Contg. Co., 101 Tremont St., Boston, $0.53 per sq.yd.

Ill., Great Lakes—Water Intake—Spec. 5004—Bureau Yards & Docks, Navy Dept., Wash., D. C., extending water intake at Naval Training Sta., here, from A. Pope, 4722 15th St., N. W., Wash., D. C., **(1)** $111,000 **(2)** $500 **(3)** $300 **(4)** no change **(5)** $6,000. Noted July 17.

H. T., Pearl Harbor—Storehouse, Depot, etc.—Spec. 4975—Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse, etc., at Naval operating base, here, from A. M. Southland Co., 2019 5th St., San Diego, Calif., **(1a)** $39,330 **(b)** $51,757 **(2)** $4,675 **(3a)** $2,758 **(3b)** $2,926 **(4a)** $1,798 **(4b)** $4,557. Noted June 5.

CONTRACTS AWARDED

Vt., St. Johnsbury—Post Office—Supervising Archt., Treasury Dept., Wash., D. C., 1 story, 61 x 69 ft. post office, here, to Sloan Dickinson Corp., 136 Liberty St., New York City, $79,438, 12 months. Noted June 26.

N. Y., Buffalo—Cement—U. S. Engineer Office, furnishing 3,200 bbl. cement to Alpha Portland Cement Co., Easton, Pa., $2.84 per bbl.

La., New Orleans—Levee—Fourth Mississippi River Dist., Somerset Levee, to Hercules Co., Ltd., Cotton Exch. Bldg., $99,360; Panola Levee, to O. O. Ogden, Roumain Bldg., Baton Rouge, $125,460; Belle Vale Levee, to D. B. Hearin & Son, Baton Rouge, $35,154; Viola and Poplar Grove Levees, to McWilliams Dredging Co., Carondelet Bldg., $101,500; Sunrise Levee, to Grasser Contg. Co., Canal-Commercial Bldg., $43,050; Limerick, Beaulieu and Brinsley Levees, to H. Kenyon Dredging Co., 3603 McKinney Ave., Houston, Tex., $116,424; Wagnes Pack and Gomex Levee, to Lower Coast Constr. Co., Godebeaux Bldg., $46,800 and $20,700, respectively; Lucy and Luling Levees, to Lambert Bros., St. Rose, $18,285; Ollie Levee, to La Fourche Basin Levee Bd., Donaldsonville, $14,260; Woodpark-Frederick Barges and Sophie Levees, to H. A. Schoenberger, Triumph, $23,048 and $4,500, respectively; St. Clair Levee, to Onion & Grau, New Orleans, $3,564; Fanny, Belair and Hartman Levees, to P. M. Adams, Pointe a La Hache, $25,188. Noted July 24.

Tenn., Memphis — Levee — Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bldg., levee in Reelfoot Dist., to W. H. Denison, Cushman, Ark., $117,000.

New Mexico—Roads—U. S. Bureau Pub. Rds., 3.57 mi. Cimmarron-Taos Rd., Forest Project 2211, Taos Co., to Dooley Constr. Co., Santa Fe $33,621, engineers est. $36,674; 4.173 mi. San Ildefanso-Frijoles Rd., Forest Project 2216, Santa Fe Co., to Le Moor Contg. Co., El Paso, Texas, $81,253, engineers est. $75,126.

Arizona—Roads—U. S. Bureau of Pub. Rds., 23.436 mi. Flagstaff-Angell Rd., Forest Highway 2009, Coconino Co., to Downer & Mero, Richmond, Calif., $130,760, engineers est. $119 297.

Oregon—Road—C. H. Purcell, dist. engr. Bureau Pub. Rds., Post Office Bldg., Portland, grading 5 mi. Santian Natl. Forest Rd., Marion Co., to W. H. Monarch, Eugene, $57,472.

Wash., Destruction Island—Radio Sta.—Spec. 4954—Bureau Yards & Docks, Navy Dept., Wash., D. C., naval radio compass station, masts and services, to C. F. Martin, 613-14 Seaboard Bldg., Seattle, $27,969, 120 days. Noted July 17.

Calif., San Francisco—Grading—Spec. 4999—Bureau Yards & Docks, Navy Dept., Wash., D. C., grading marine corps depot for supplies, to Farrar & Carli, 185 Stevenson St., $33,940 (45 days). Noted June 26.

Calif., San Francisco—Sprinkler System—Spec. 5000—Bureau Yards & Docks, Navy Dept., Wash., D. C., sprinkler system for Marine Corp. Depot for Supplies, to Grinnell Co., 610 Brannon St., Item 7, $12,177.

Calif., San Francisco — Storehouse — Spec. 5000—Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse for Marine Corps Depot for supplies, to K. E. Parker, 519 California St., Items 2, 3, 4, 5 and 6, $255,268.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

507—C. E. Williams, Bass Lake, Calif.—Wants license for small power project to develop 25 h.p.

508—Nevada California Power Co., Riverside, Calif.—Wants license to add 10 ft. to dam in Rush Creek, Mono Co., creating an additional storage of 2,000 acre ft.

509—A. & P. Products Corp., Central Bldg., Seattle, Wash.—Wants license for small power project in Waterfall Creek, in Portland Canal section of Tongass Natl. Forest, Alaska.

510 — Washington Water Power Co., Spokane, Wash.—Wants license for 24.0 mi. transmission line from Neppel to Taunton, Grand and Adams Counties.

511—C. D. Carter and B. B. Smith, Hyder, Alaska—Wants preliminary permit for small power project in Thumb Creek in Tongass Natl. Forest, about 7 mi. from Hyder, Alaska.

512—El Dorado Power Co., San Francisco, Calif.—Wants preliminary permit for power project in Silver Fork of South Fork of American River about 32 mi. east of Placerville, Eldorado Co.

Unclassified

PROPOSED WORK

Ash Handling Machinery—Chicago, Ill.—City takes bids about Aug. 5, ash handling machinery for Central Park Avenue pumping station, incl. 5 ash hoppers, 2 ash cars, 10 trucks, 1 complete system of tracks, 1 end dumping mechanism, ten 1 ton hoists, 2 bails, 2 overhead trolleys, 1 skip hoist, etc. $28,000. J. Ericson, 402 City Hall, engr.

Terminals—St. Louis, Mo.—See "Buildings-Commercial."

Transmission Line—Arkansas—Arkansas Light & Power Co., Picron St., Little Rock, acquired from the Arkansas Utilities Co. the distribution system at Clarendon, Brinkley and Cotton Plant and plans 66,000

Unclassified (Continued)

volt transmission line from Pine Bluff to Camden.

Stadium—Norman, Okla.—University of Oklahoma having plans prepared by Sorey & Vahlberg, 212 West 1st St., Oklahoma City, 2 story rein.-con. stadium, 40,000 seating capacity, on campus $650,000.

Rock Crushing Plant — Azusa, Calif. — Builders Crushed Rock Co, H. Hicks, Jr., pres., Lane Mortgage Bldg., Los Angeles, plans to construct rock crushing plant. $85,000 or more.

Pier—Huntington Beach, Calif.—Plans election to vote $150,000 bonds to construct municipal pier approximately 500 ft. long.

Elimination of Grade Crossing — Long Beach, Calif.—City plans elimination of grade crossing over Dominguez Creek on Anaheim Rd. $500,000 or more, to be financed by city, Los Angeles Co., and the railroads.

Athletic Field and Sea Wall—Los Angeles, Calif.—Plans Army and Navy athletic field and seawall near San Pedro Dist. $250,000 and $145,000 respectively. Probably under Playground Comn.

Park and Playgrounds — Los Angeles, Calif.—City plans park and playgrounds on 100 acre site between Fountain and Lexington Aves. To exceed $25,000.

Street Lighting System—Napa, Calif.—City made plans 153 single standards in portions of Coombs, Third, Clay Sts., etc. $31,500. J. A. Harrold, city engr.

Street Lighting System—Redonda Beach, Calif. — W. J. Baalen, city clk., rejected bids June 16, for street lighting system. Noted July 24.

Street Lighting System—San Bernardino, Calif.—Made plans to install concrete ornamental standards with wires, conduits, etc., in 2nd St., between F and I Sts. $25,000. J. H. Osborn, city clk.

Memorial Park, etc. — San Francisco, Calif.—City and San Francisco Co., had preliminary plans prepared by San Francisco Fliers Club, Marina, San Francisco, memorial park and municipal air terminal. To exceed $25,000.

Calif., San Anselmo—See "Streets and Roads."

Electric Lighting System — Ontario — Ontario Hydro Power Comn., 119 University Ave., Toronto, plans extending light and power lines from Blyth to Auburn, and new electric lighting system at Auburn. $35,000.

Wharf—Belle River, Ont.—Dept. Pub. Wks., Parliament Bldgs., Ottawa, making plans dredging and repairing wharf, here. $30,000. K. M. Cameron, Parliament Bldg., Ottawa, engr.

Drilling—Camperdown, Ont.—Oil Wells of Canada Ltd., plans extensive drilling here. $50,000. C. W. artman, Clarksburg, engr.

Grain Elevator—Point Edward, Ont.—J. I. Hunt of Hunt Milling Co., London, making plans 10,000,000 bu. elevator. $2,000,000. Private plans.

Grandstand — Toronto, Ont. — Ontario Jockey Club, 7 Leader Lane, plans 2 story, rein.-con., brick and steel grandstand at Woodbine Race Track, King St. $150,000-$200,000. Engineer and architect not selected.

Ice Rink—Toronto, Ont.—Ravina Rink Co., Rowlands Ave., having plans prepared by Ewart, Jacobs, Armer & Byam, engrs., 36 Toronto St., 1 story ice rink, brick and steel. $150,000.

BIDS DESIRED

Piers—Boston, Mass.—Aug. 19, by Dept. Pub. Wks., City Hall, two concrete piers at Dartmouth St. Bridge. $25,000. J. A. Rourke, comr.

Wharf—Mamaroneck, N. Y.—Aug. 18, by Bd. Trustees, wharf incl. dredging, pile and timber pier. J. M. Duffy, village engr.; adv. E. N.-R. Aug. 7.

Retaining Wall — New Jersey — See "Streets and Roads."

Hydrating Plant—Bellefonte, Pa.—White Rock Quarries, West High St., taking bids new hydrating plant.

Testing Machine — Marion, O. — Marion Steam Shovel Co., in market for testing machine, 400,000-800,000 lb. capacity.

Culverts — Atlantic, Ia. — See "Streets and Roads."

Coal Trestle — Brainerd, Minn. — See "Buildings—Industrial."

Foundation, etc. — Emeryville, Calif. — Pacific Gas & Electric Co., 445 Sutter St., San Francisco, excavating and constructing foundations for shops, storage yards, foundry, electrical shops, etc., also building necessary projection walls and spur tracks, here, to O. H. and A. W. Gorrill, Bacon Bldg., Oakland. Total cost $500,000. Noted July 31 under "Buildings—Industrial."

Street Lighting—Hawthorne, Calif.—See "Streets and Roads."

Wharf Extension—Los Angeles, Calif.—City Harbor Comn., Byrne Bldg., taking bids 2,400 ft. wharf extension, 22 ft. wide, concrete decking. To exceed $150,000.

BIDS RECEIVED

Track Elevation—Phila., Pa.—Grading, constructing and reconstructing sewers, laying and relaying water mains and other underground structures, setting and resetting curb, paving, and repaving roadways and sidewalks, underpinning buildings and work appurtenant to South Phila. Track Elevation, from J. Meehan & Son, 916 West Dakota St., $151,316.

CONTRACTS AWARDED

Indoor Baseball Field—Amherst, Mass.—Structural steel cage, 160 sq.ft. to Ranger Constr. Co., Holyoke. Archts. est. $150,000 to $175,000.

Heating and Ventilating — New York, N. Y.—See "Buildings-Commercial."

VIADUCT, ETC.—PHILADELPHIA, PENN.

Following are lowest three bids opened by City and Pennsylvania R.R., 607 Broad St. Sta., July 17, for concrete viaduct, retaining wall, etc., over Schuylkill River between Arsenal Bridge and 25th and Reed Sts., Contr. No. 17, (A) Sinclair & Griggs, 401-5 Medical Arts Bldg. (awarded contract); (B) Empire Eng. Co., Inc., 31 South Calvert St., Baltimore; (C) James McGraw Co., 1010 Commercial Trust Bldg. The unit bids were as follows:

	A	B	C
980 cu.yd. excavation for column foundations	$3.25	$2.50	$3.50
10 cu.yd. excavation for column foundations below plan depth	5.50	8.00	8.00
5,200 cu.yd. excavation for retaining wall and abutment foundations	2.06	2.50	3.00
10 cu.yd. excavation for retaining wall and abutment foundation below plan depth	5.50	8.00	6.00
1,000 cu.yd. excavation for trestle bents	1.18	2.50	2.00
100 cu.yd. rehandling material for filling cribs	1.25	2.50	3.00
140 cu.yd. class "A" concrete in viaduct columns	25.96	45.00	30.00
1,040 cu.yd. class "B" concrete in viaduct deck	18.88	23.50	22.00
290 cu.yd. class "D" concrete in column footings	11.33	10.00	20.00
75 cu.yd. Class "B" concrete in bridge seats	21.24	15.00	20.00
2,760 cu.yd. class "C" concrete in retaining walls and abutments above top of foundation	12.98	9.00	14.00
2,240 cu.yd. class "D" concrete in retaining walls, abutments and columns below top of foundation	8.85	8.50	11.00
Class "B" concrete in bridge floor, Gray's Ferry Avenue Bridge (lump sum)	4,400.00	9,000.00	4,200.00
10 sq.ft. bush hammer finish	1.50	0.30	0.10
10 cu.yd. adding concrete densifier	1.00	0.30	0.25
1,025,000 ft. b.m., furnishing all material, framing and erecting timber, trestles and jumpovers, including hardware	94.40	95.00	100.00
1,000 ft. b.m., framing and erecting timber trestles and jumpovers including hardware	30.00	40.00	50.00
1,000 ft. b.m., furnishing L.L.Y.P. lumber delivered at site	80.00	80.00	75.00
1,000 ft. b.m., furnishing S.L.Y.P. lumber delivered at site	60.00	56.00	60.00
1,000 ft. b.m., furnishing second-hand material, framing and erecting timber cribs, including hardware	65.00	70.00	65.00
1,000 ft. b.m., framing and erecting timber cribs, including hardware	20.00	35.00	50.00
1,000 ft. b.m., furnishing and constructing L.L.Y.P. for foundations including hardware	80.00	110.00	125.00
1,000 ft. b.m., furnishing and constructing S.L.Y.P. for foundations including hardware	70.00	90.00	100.00
1,000 ft. b.m., timber left in foundations	50.00	90.00	100.00
1,050 lin.ft. 4-in. V.C. pipe back of walls	0.30	0.25	0.50
180 lin.ft. 6-in. V.C. pipe back of walls	0.41	0.35	0.60
60 lin.ft. 4-in. V.C. pipe not in concrete	0.59	0.25	3.50
150 lin.ft. 6-in. V.C. pipe not in concrete	0.95	0.35	4.00
12 lin.ft. 8-in. V.C. pipe not in concrete	0.71	0.50	5.00
12 lin.ft. 10-in. V.C. pipe not in concrete	0.88	0.70	6.00
12 lin.ft. 12-in. V.C. pipe not in concrete	1.06	0.85	6.50
12 lin.ft. 15-in. V.C. pipe not in concrete	1.77	1.15	7.00
12 lin.ft. 18-in. V.C. pipe not in concrete	2.65	1.50	8.00
450,000 lb. steel rods for reinforcing	0.05	0.06	0.05
10 lb. additional hardware	0.20	0.10	0.20
8 c.i. wheel guards	88.50	150.00	150.00
8 drains for viaduct	59.00	75.00	50.00
22 lin.ft. steel curb nosing	0.35	0.30	1.00
560 lin.ft. metal railing, type "A"	1.29	2.50	1.50
920 lin.ft. metal railing, type "B"	2.95	4.00	3.00
630 sq.ft. galvanized wire screens for type "A" metal railing	0.72	1.00	0.75
910 sq.ft. galvanized wire screens for Gray's Ferry Avenue Bridge	1.18	1.50	1.00
890 cu.yd. dry stone backing	7.08	9.00	5.00
2,940 lin.ft. placing fibre conduit	0.12	0.15	0.20
180 lin.ft. placing steel pipe	0.12	0.15	1.00
Splicing chambers (lump sum)	236.00	800.00	5,000.00
Placing lighting ducts (lump sum)	236.00	250.00	500.00
Waterproofing concrete bridge floor, Gray's Ferry Avenue Bridge (lump sum)	2,006.00	1,500.00	1,500.00
Removing arsenal wall (lump sum)	1,180.00	2,000.00	1,500.00
Removing buildings, will charge (lump sum)		1,200.00	.....
Removing buildings, will credit (lump sum)	100.00	.....	.....
10 hr., foreman working regular hours	1.25	1.50	1.25
10 hr., foreman overtime	1.75	2.25	1.50
10 hr., laborer regular working hours	0.60	0.90	0.60
10 hr., laborer overtime	0.90	1.35	0.70
10 hr., timekeeper	1.25	1.50	1.00
10 hr., auto truck, 3 ton and under, including driver, regular working hours	3.50	4.00	3.00
10 hr., auto truck, 5 ton, including driver, regular working hours	4.50	4.50	4.00
10 hr., two-horse team and wagon, including driver, regular working hours	1.50	2.00	1.25
$100, additional material	0.15	0.10	0.15
Extended totals	$240,455	$254,707	$271,264

STREET IMPROVEMENT—ST. LOUIS, MO.

Bids were opened by Bd. Pub. Serv., July 1, for reconstruction of Blow Street from Gravois St. to McDermott Subdivision, (A) Granite Bituminous Paving Co., Ry. Exchange Bldg.; (B) Brighton Co., 4101 Park Ave. The unit bids were as follows:

	A	B
3,685 cu.yd. of grading	$1.27	$1.50
35 hours rolling subgrade	3.25	3.50
30 ft. removing marginal curb	.25	.35
10 sq.yd. removing old brick surface	.55	.50
5 sq.yd. removing old concrete	.55	1.50
25 lin.ft. removing existing curb	.50	.35
4,815 lin.ft. straight 16 in. granite curb	1.90	1.98
180 ft. round 16 in. granite curbing	2.64	2.75
10 ft. reset curbing	.65	.90
1,610 sq.yd. concrete gutters and alley aprons	2.50	2.50
10 sq.yd. vitrified brick, sand cement bed	2.55	4.00
5,505 sq.yd. concrete foundation and Warrenite surface	3.37	3.44
5,030 ft. expansion joints	.18	.12
160 lin.ft. oak headers	.38	.40
3 cu.yd. concrete	10.50	10.00
800 cu.ft. macadam and limestone screening	.14	.12
2M ft. 2-in. planking	30.00	40.00
5 tons hydrated lime	25.00	25.00
Extended totals	$38,349	$39,720

Unclassified (Continued)

Subway and underground Conduit Work —New Britain, Conn.—Excavating, concrete and brick work for subway on Commerce St., and conduit work, to G. M. Gest, 237 Bway., New York City. Engrs. est. $50,000.

Transmission Line—Mississippi—Mississippi Power & Light Co. will build 20 mi. high tension transmission line from Vicksburg to Jackson, also line from Tupelo to Baldwin, by day labor. $250,000. Private plans. Noted July 31.

Structural Shapes — Ft. Worth, Tex. — Trinity Portland Cement Co., Commonwealth Bldg., Dallas, 375 tons structural shapes, for new cement mill, here, to Ft. Worth Steel & Mchy. Co., East Front St., $32,000.

Plumbing, etc. — Denver, Colo. — See "Buildings—Commercial."

Penstock—Bartle, Calif.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, constructing pen stock for Pit River Development No. 3, Shasta Co., to Moore Dry Dock Co., Ft. of Adeline St., Oakland $170,000. Erection of 1,300 tons structural steel, will be done by day labor.

Material and Equipment

PROPOSED WORK

Pneumatic Hammer — Phila, Pa. — See "Streets and Roads."

Street Flushers and Sprinklers — New Ulm, Minn.—Rejected bids for 1 to 2 motor street flushers and sprinklers with 1,000 gal. tank; and 1 to 6 horse drawn type sprinklers with steel tank, 600 gal. capacity. W. P. Backer, city clk. Noted June 12.

Steel — San Francisco, Calif. — P. J. Walker Co., (contractor), Sharon Bldg., soon takes bids approximately 1,000 tons structural steel for 15 story and basement hotel annex, Geary and Taylor Sts., for Clift Hotel Co. Total cost $1,000,000. Noted Apr. 24 under "Buildings—Commercial."

Creosoted Wood Blocks—Ottawa, Ont.—Bd. Control soon takes bids 1,800 sq.yd. creosoted wood blocks for Wellington St. viaduct.

BIDS DESIRED

Road Grader—Galesburg, Ill.—City in market for road grader for Street Dept. E. Linner, chn. Street Dept.

Road Machinery—Austin, Tex.—Aug. 19, by State Bd. Control, c/o R. B. Walthall, Purchasing Div., 24 heavy tractors suitable for 12 ft. graders, 35 medium power tractors, suitable for 8 ft. and 10 ft. graders, thirty-five 12 ft. graders complete with engine hitch, 100 one man power maintainers, ninety-six 4 ft. fresnos, 96 slip scrapers, 32 light and 32 heavy plows, 75 heavy duty mowers, 10 rollers, approximate capacity 5 tons, all above for Maintenance Div. of State Hy. Dept. L. Ehlinger, maintenance engr.

Lumber—Dallas, Tex.—Taking bids 60 M ft. 3 x 12 x 18, 40 M ft. 2 x 12 x 18, 40 M ft. 2 x 12 x 20, 20 M ft. 2 x 18-18, 20 M ft. 2 x 8-20, long leaf Y. P. rough lumber. E. A. Kingsley, city engr.

Tractor—Sherbrooke, Que.—J. S. Martel, in market for one gasoline caterpillar tractor.

Pipe—Toronto, Ont.—Aug. 19, by W. W. Hiltz, mayor and chn. Bd. Control, furnishing 15,000 ft. 22 in. steel pipe, Tender 54.

CONTRACTS AWARDED

Asphalt Sand—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 10,000 cu.yd. asphalt sand, to Z. Mahoney, 557 46th St., Brooklyn, $11,200. Noted July 24.

Gravel—Crowley, La.—Sub-Road Dist. 2 Sixth Ward, Arcadia Parish, about 9,000 cu.yd. washed gravel to J. W. Thomson, Walls St., Baton Rouge, $2.50 cu.yd.

Fuel Oil—Wauwatosa, Wis.—Bd. Pub. Beacon St., 849,000 gals. heavy fuel oil to Petroleum Heat & Power Co., 100 Boylston St., $0.45. Noted July 10.

Road Oil—Wauwatosa, Wis.—Bd. Pub. Wks., 40,000 gal. road oil, to Camden Petroleum Co., 232 South Clark St., Chicago, Ill. $0.10 per gal. Noted July 10.

Ash Removing and Coal Handling Machinery — Litchfield, Minn. — Coal handling machinery, to Link-Belt Supply Co., 200 Lyndale Ave. N., Minneapolis, $1,298; and ash removing for power plant, to J. G. Robertson & Co., 2542 University Ave., St. Paul. $1 098.

Crushed Rock, etc.—Minneapolis, Minn.—To J. Wunder Co., Bway. and K Sts., N. E., 1,400 cu.yd. gravel at $2.85 per cu.yd.; to Glacier Sand & Gravel Co., 210 Palace Bldg., 700 cu.yd. sand at $1.25; to Landers, Morrison, Christian Co., 800 Builders Exch., 1,800 cu.yd. gravel $2.60 and 900 cu.yd. sand $1.10. Noted July 24.

Granite Paving Blocks — Minneapolis, Minn. — For 2,100 sq.yd. granite paving blocks, to Wisconsin Granite Co., 105 West Monroe St., Chicago, at $2.09 per sq.yd. Noted July 24.

Steel Castings, etc.—St. Louis, Mo.—Missouri-Kansas-Texas R.R., 1629 Ry. Exch. Bldg., 150 miscellaneous castings, to Hubbard Co., 5401 West Roosevelt Rd., Chicago; 87 tons locomotive and car bolsters, and side frames, to Amer. Steel Co., and Scullin Steel Co., 6700 Manchester St. Noted June 19.

Pipe—Dallas, Tex.—For 300 tons 16 in. Class B, c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Magnolia Bldg., $58.50 per ton.

Fuel Oil—Ft. Worth, Tex.—For 15,000 bbl. fuel oil, to Gulf Refining Co., Diamond Hill, $1.18 per bbl. Noted July 24.

Street Signs — Ft. Worth, Tex. — For 3,000 street signs, to Hardestry Mfg. Co., W. T. Waggoner Bldg., $16,000. Noted July 3.

Cement—Portland, Ore.—For 50,000 bbl. Portland cement, from July 30, 1924, to July 30, 1925, to Oregon Portland Cement Co., Wilcox Bldg., market price at time of delivery but not to exceed $3.30 less $0.10 c.o.d. and $0.10 for all sacks returned.

Cast Iron Pipe—Los Angeles, Calif.—City, c/o Pub. Serv. Comn., to U. S. Steel Products Co., 156 North Central Ave., 2,800 ft. 8 in., $1.11 per ft., 12,000 ft. 12 in., $2.18, 11,000 ft. 16 in., $3.55; to Amer. Cast Iron Pipe Co, Metropolitan Theatre Bldg., 120,000 ft. 4 in. class B pipe $61.24 per ton; to U. S. Cast Iron Pipe & Foundry Co., Gright-Callendar Bldg., 120,000 ft. 6 in. $0.8587 per ft., and $0.9202, 12,000 ft. 12 in. $2.1954, 6,000 ft. 8 in. $1.2627, 3,000 ft. 16 in. $3.4919, 17,520 ft. 24 in. $7.3807.

Pipe—Monrovia, Calif.—For 3,500 ft. 4 in. standard dipped screw pipe, to Crane Co., 319 East 3rd St., Los Angeles, at $57.45 per ton; 4,000 ft. 5 in. riveted steel pipe and fittings, to Lacy Mfg. Co., Washington Bldg., Los Angeles, $3,380. Noted July 31.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: August 19.

Reinforced Concrete Bridge

Doylestown, Pa.

Sealed proposals will be received at the Office of the County Commissioners, Doylestown, Bucks County, Penna., on Tuesday, August 19, 1924, at 11 o'clock a.m. (Eastern Standard Time), and opened at noon, for the construction of a three span reinforced concrete bridge 37' wide by 280' long.

This bridge is to be built over the Neshaminy Creek, a tidal stream, on Pennsylvania State Highway Route No. 150.

Plans and Specifications for the proposed work are on file in the Office of the County Commissioners at Doylestown, Penna., or at the Office of County Engineer, John S. Roberts, Jr., at Bristol, Penna., annd may be obtained upon deposit of $10.00, which sum will be refunded upon the return of said plans and specifications in good condition.

The right is reserved to reject any or all bids.

ERNEST H. HARVEY,
FRANK S. MORRIS,
OSCAR F. HELMS,
County Commissioners.

Bids: August 26.

Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pa. Bids will be received August 26, 1924, for construction of twelve projects, totaling twenty-two miles, construction to be either bituminous surface on a concrete base or reinforced concrete. Projects situated in the following counties: Armstrong, Bucks, Clarion, Erie, Fayette, Indiana, Lycoming, Perry, Washington, York.

Full particulars upon application to Paul D. Wright, Secretary of Highways, Harrisburg, Pennsylvania.

OFFICIAL PROPOSALS

Bids: August 26.

Filtration Plant

Beaumont, Texas.

Sealed proposals will be received at the office of the Beaumont Water Works Commission, City Hall, Beaumont, Texas, up to ten (10) o'clock A.M., of Tuesday, the twenty-sixth (26th) day of August, 1924, for furnishing equipment, material and labor, and constructing a four million (4,000,000) gallon filtration plant including mixing chambers, sedimentation basins, sub-structure and super-structure of filter building and head-house, and installation of filter equipment for four (4) one million (1,000,000) gallon units.

Each bid must be accompanied by a certified check equal to ten per cent (10%) of the bid filed and payable to the Beaumont Water Works Commission, Beaumont, Texas.

All of the equipment shall be furnished and work done in accordance with the specifications and plans on file with the Beaumont Water Works Commission, Beaumont, Texas, and with Burns & McDonnell Engineering Company, Kansas City, Missouri.

Any one desiring copy of the plans and specifications for personal use may obtain same from the Engineers by making a deposit of Twenty Dollars ($20.00), one-half of which amount will be returned if the plans and unused specifications are returned to the Office of the Engineers within ten (10) days after the date of the letting.

The Beaumont Water Works Commission reserves the right to reject any and all bids and to waive any irregularities in the bids.

BEAUMONT WATER WORKS COMMISSION
L. J. BLACK, Chairman,
PAUL H. MILLARD,
E. E. SWOPE.

BURNS & McDONNELL,
Engineering Company,
402 Interstate Building,
Kansas City, Missouri.

OFFICIAL PROPOSALS

Bids: August 26.

Water Works and Sewage Disposal

Southern Pines, N. C.

Sealed proposals will be received by the Mayor and Board of Town Commissioners of the Town of Southern Pines, N. C., at the Town Hall in Southern Pines, N. C., until noon, August 26th, 1924, for Water Works and Sewage Disposal.

The work will consist of:

Brick and Concrete Pumping Station and complete Filter Plant.

Steel Wash Water Tank and Tower.

Three miles of 12-inch Cast Iron Pipe Line.

Three miles of 2,200 volt transmission line.

Motor-driven Centrifugal Pumps, and accessories.

Earth and Concrete Impounding Dam.

Sewage Disposal Plant.

Proposals must be marked "Proposal for Water Works Improvements."

All bids must be upon blank forms provided in the Proposal, Specifications, and Contract.

Each bid must be accompanied by a certified check for not less than five per cent of the amount of the bid, as evidence of good faith.

Plans and specifications will be on file at the Clerk's office in Southern Pines, and at the office of the Engineer in Durham, N. C.; and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineer at Durham, N. C., accompanied by payment of Six Dollars ($6.00) for each set of plans and specifications.

The right is reserved to reject any or all bids.

SAMUEL B. RICHARDSON, Mayor.
R. L. CHANDLER, Clerk.

Engineer:
GILBERT C. WHITE CO.,
Durham, N. C.